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RISK-ADJUSTED
HOSPITAL MORTALITY NORMS
CPHA PUBLICATIONS

1986 WORKBOOK

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1986 Risk-Adjusted Hospital Mortality Norms

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PREFACE

It is often said that statistics describe people without their tears. This is especially compelling with mortality statistics; the numbers represent with impersonal finality the loss of an individual, a loved one, and a member of the human community.

We have been mindful of this in publishing the 1986 Risk-Adjusted Hospital Mortality Norms. We consider the dissemination of normative mortality data an important contribution to the political and ethical choices now facing Americans concerning access to quality medical care and increasing control over death.

EXPLANATORY NOTES

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HOW TO USE THE 1986 RISK-ADJUSTED HOSPITAL MORTALITY NORMS WORKBOOK

The 1986 Risk-Adjusted Hospital Mortality Norms Workbook is designed for the following members of the health care team:

- quality assurance coordinators
- physicians

In addition, the workbook can be purposefully applied by professionals whose role includes monitoring health care issues, specifically quality of care:

- PRO, HMO, and PPO quality assurance specialists
- corporate benefit and insurance company analysts
- health care policy experts

As its name implies, the publication includes practical exercises. The user needs to obtain four commonly used institution- or provider-specific data items and to perform two simple calculations to complete the workbook.

The four requisite data items are:

- number of patient discharges categorized by DRG from an institution or provider, stratified by:
  - presence or absence of a HCFA-defined complication or comorbidity
  - age group (<65, 65-69, and 70+)
  - expiration status

The calculations are easily accomplished on a pocket calculator:

- divide the number of DRG categorized patient discharges with or without CCs, in one of the three age groups who died, by the total number of patients with those matching attributes; and
- multiply by 100 to get the percent of those patient discharges who died.

The workbook is based on the premise that the collection and maintenance of large inpatient databases enables the development of health care industry norms, in this instance risk-adjusted mortality norms.

Users are instructed to calculate and compare institution- or provider-specific death rates to the national and regional predicted mortality norms constructed from a large nationally representative inpatient database, and refined through a new risk-adjusted mortality rate methodology, called the Risk-Adjusted Mortality Index. Comparisons allow users to identify potential problem areas, initiate further inquiries, or define the importance of mortality as an indicator for their own quality assurance programs.

The 1986 Risk-Adjusted Hospital Mortality Norms Workbook constitutes only one component or information source for a comprehensive quality assurance program. The workbook does not attempt to push an agenda or set standards for death rates for a region or the nation. The workbook has been created to help health care professionals more uniformly and reliably define quality of care issues through the application of mortality data, an already recognized and accessible quality measure.

MORTALITY DATA AS A QUALITY MEASUREMENT TOOL

During the last few decades, health services researchers have used mortality data as an indicator of quality of medical care. Several arguments have been advanced to support such use:

- mortality as a data variable is one of the few quality measures that is valid, since death is perceived by many as the worst possible health outcome and prevention of death has been the major task of medical care;

- mortality data are easily available, and unlike other potential quality measures, standardized and uniform;

- mortality data can be collected and displayed by institution, medical specialty, or physician, enabling health care professionals to identify potential quality problems; and

- mortality data are accessible to health care consumers to evaluate care options on the criterion of quality.

At the same time, health services researchers have been very cautious in endorsing mortality data as a comprehensive tool of quality measurement. Concerns center around four issues:

- uneven quality of mortality data and dependence on small, nonrepresentative samples;
- use of inappropriate and untested mortality rate adjustment models;
- nonspecificity of mortality data; and
- need to develop and integrate quality measures, in addition to mortality, to increase the efficacy of quality assurance programs.

The approach, methodology, and practical exercises available in the 1986 Risk-Adjusted Hospital Mortality Norms Workbook overcome these concerns where possible. These issues are further defined throughout these explanatory notes and integrated into a discussion of the:

- collection, quality, and design of the database from which the mortality norms are constructed;
- components and definitions of the CPHA risk-adjusted mortality rate model;
- applications and limitations of the risk-adjusted mortality norms in the workbook;
- instructions on how to complete the workbook; and
- additional consulting services.

DESCRIPTION OF THE DATABASE

Data Collection

The data are compiled from individual patient discharge records submitted by approximately 1,150 U.S., short-term general, nonfederal hospitals participating in the Professional Activity Study (PAS) of the Commission on Professional and Hospital Activities (CPHA).

Data storage and retrieval are accomplished as follows:

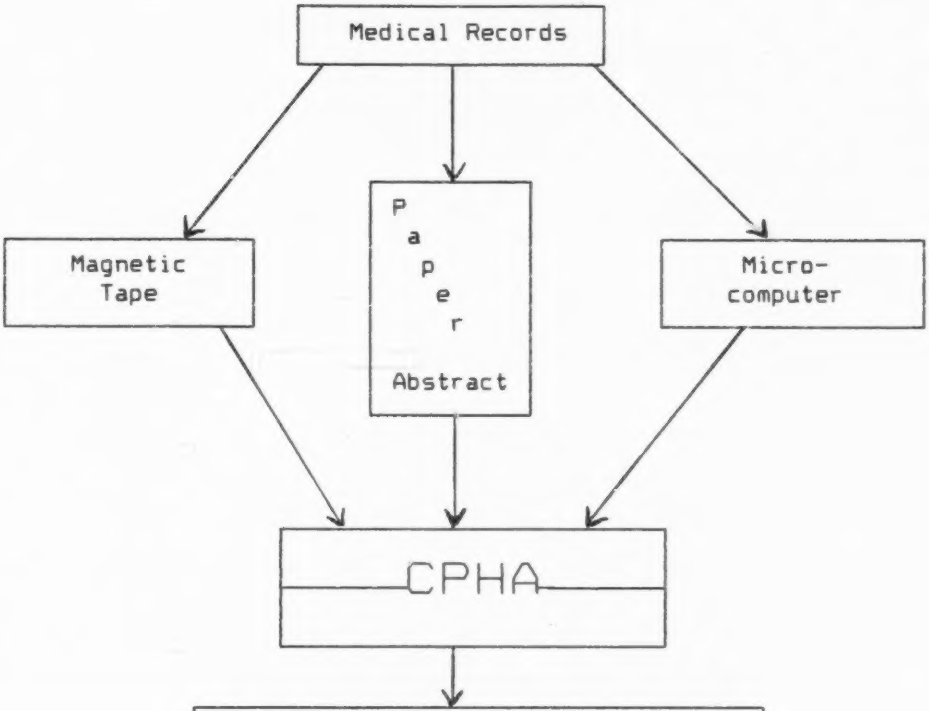
1. In each participating hospital, personnel transfer demographic and clinical data from the medical record of each discharged patient via microcomputer floppy disk, magnetic tape, or paper abstract.

2. The disk, tape, or abstract is mailed to the data input center at CPHA where the data are entered into the computer system.

3. Data then undergo manual or interactive edits and flagged errors are corrected by CPHA coding and abstracting specialists as directed by contributing hospitals.

4. Hospitals continually add data stored in the computer system's permanent history file dating back as far as 1955. Participating hospitals are provided access to their own data through interactive systems, in-house computers, and paper reports. The stored aggregate data are available for policy and contract research and through publications such as the 1986 Risk-Adjusted Hospital Mortality Norms Workbook.

CPHA'S DATA COLLECTION SYSTEM


Medical Records
Magnetic Tape
Paper Abstract
Micro-computer
CPHA

CPHA's Database is maintained for:

- Print and electronic publications, e.g., the 1986 Risk-Adjusted Hospital Mortality Norms Workbook, 1986 Length of Stay Norms
- Contract research market analysis, forecasting, survey, and epidemiological investigations
- Policy research on major health care issues, e.g., cost containment, quality of care, equal access
- On-line access and analysis by hospitals and other health industry groups

DATA QUALITY

Although the hospital is ultimately responsible for the quality of its data, CPHA shares responsibility as the hospital's medical record processor. For this reason, CPHA goes to considerable length to prevent and correct errors by continually training hospital medical record personnel in coding and abstracting methods, by routinely monitoring submitted data, and by carefully checking and editing the data for errors.

Over 600 checks are performed during the micro and mainframe computer processing of each patient record to ensure reasonableness of the data. Examples of discrepancies in the data detected by the audit are: pediatric service recorded for a patient older than the specified pediatric age, cesarean section recorded with a normal delivery diagnosis, or unrecorded or invalid principal diagnosis. When illogical, invalid, or missing data are detected by the computer system edits, errors are referred back to hospital staff for correction.

SAMPLE DESIGN USED TO CALCULATE MORTALITY NORMS

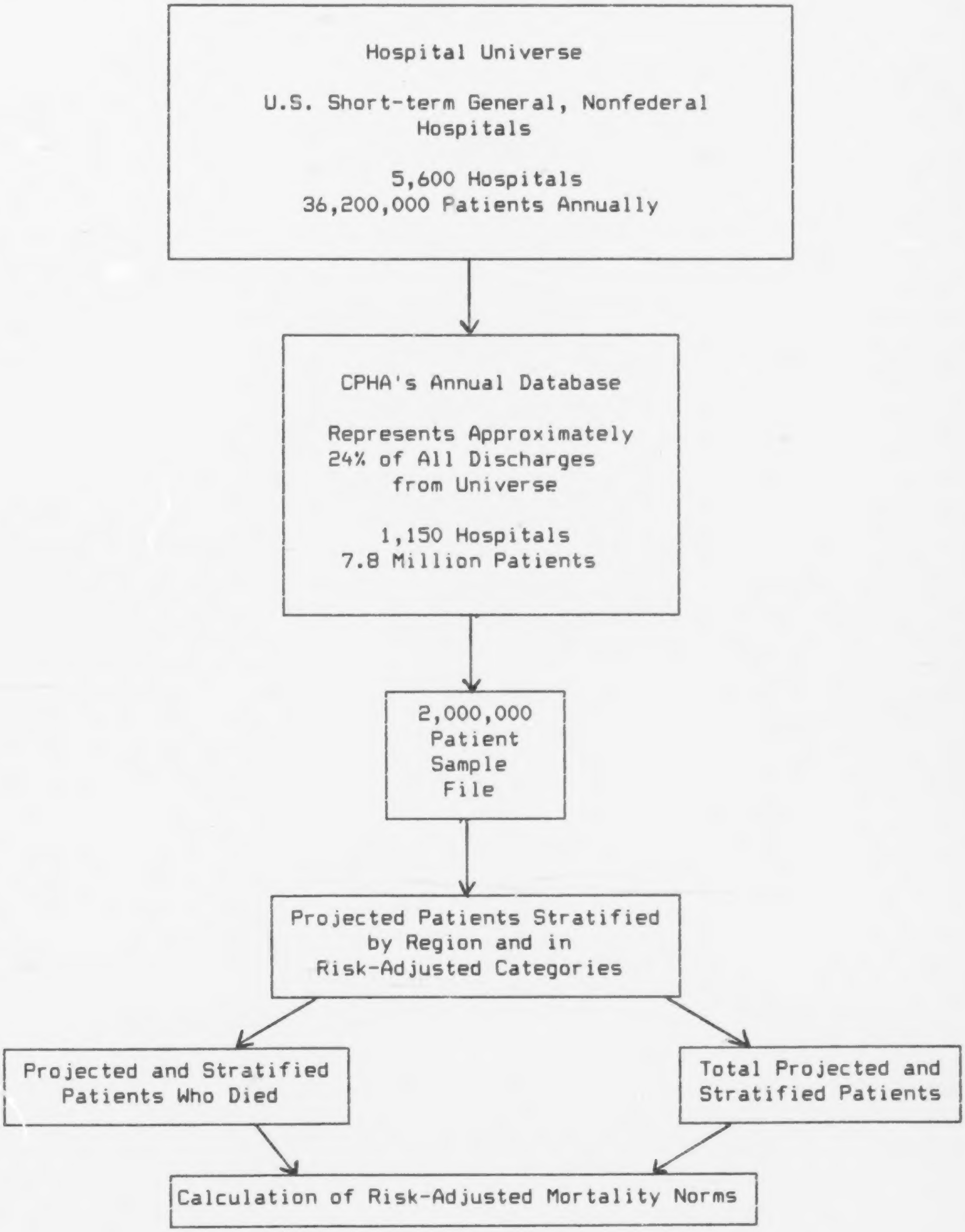
As previously mentioned, CPHA's database includes approximately 1,150 U.S. short-term general, nonfederal hospitals and discharge records for approximately 7.8 million patients per year. This represents about 24 percent of the annual discharges from the universe of short-term general, nonfederal hospitals in the United States.

To produce the 1986 Risk-Adjusted Hospital Mortality Norms Workbook, a nationally representative sample of two million patient discharges is drawn from CPHA's 1986 database. The sample patients are then projected to represent all patients discharged from the universe of similar hospitals.

These projections are, in turn, stratified by region and risk-adjustment factors (DRG cluster, complications and comorbidities, age group) and expiration status. Then predicted death rates, i.e., norms, are calculated along with a range of error for each norm.

The diagram on the next page illustrates the sampling and stratification process.

CREATION OF THE 1986 RISK-ADJUSTED HOSPITAL MORTALITY NORMS REPRESENTATIVE SAMPLE


Hospital Universe
U.S. Short-term General, Nonfederal Hospitals
5,600 Hospitals
36,200,000 Patients Annually
CPHA's Annual Database
Represents Approximately 24% of All Discharges from Universe
1,150 Hospitals
7.8 Million Patients
2,000,000 Patient Sample File
Projected Patients Stratified by Region and in Risk-Adjusted Categories
Projected and Stratified Patients Who Died
Total Projected and Stratified Patients
Calculation of Risk-Adjusted Mortality Norms

HOSPITAL UNIVERSE

The hospital/discharge universe is based on the facility and discharge numbers collected for the most current Annual Survey of Hospitals of the American Hospital Association (AHA). The two charts below present the number of hospitals and discharges for U.S. short-term general, nonfederal hospitals by census region (4), ownership (4), and bedsize (5).

UNITED STATES SHORT-TERM GENERAL, NONFEDERAL HOSPITALS
BY CENSUS REGION, OWNERSHIP AND BEDSIZE

CENSUS REGION	HOSPITAL OWNERSHIP																				TOTAL
	Gov., Nonfed., in Large Cities					Gov., Nonfed., Not in Large Cities					Nongov., Not-for-Profit					Nongov., For Profit					
	BEDSIZE					BEDSIZE					BEDSIZE					BEDSIZE					
	6-99	100-199	200-299	300-499	500 +	6-99	100-199	200-299	300-499	500 +	6-99	100-199	200-299	300-499	500 +	6-99	100-199	200-299	300-499	500 +	
NORTHEAST	-	-	3	1	10	18	13	6	2	2	142	168	257	55	69	10	9	11	-	-	796
N. CENTRAL	1	-	4	1	7	381	36	20	2	4	304	234	245	30	90	28	12	7	1	1	1646
SOUTH	1	3	4	1	9	525	105	59	14	20	314	202	202	36	71	248	176	88	12	2	2112
WEST	-	2	11	1	2	235	22	27	4	1	323	130	134	84	18	94	76	84	-	1	1042
U.S. TOTAL	2	5	22	4	28	1159	196	112	22	27	1200	742	520	193	220	380	273	130	13	4	5596

DISCHARGES FROM U.S. SHORT-TERM GENERAL, NONFEDERAL HOSPITALS
BY CENSUS REGION, OWNERSHIP AND BEDSIZE

CENSUS REGION	HOSPITAL OWNERSHIP																				TOTAL
	Gov., Nonfed., in Large Cities					Gov., Nonfed., Not in Large Cities					Nongov., Not-for-Profit					Nongov., For Profit					
	BEDSIZE					BEDSIZE					BEDSIZE					BEDSIZE					
	6-99	100-199	200-299	300-499	500 +	6-99	100-199	200-299	300-499	500 +	6-99	100-199	200-299	300-499	500 +	6-99	100-199	200-299	300-499	500 +	
NORTHEAST	-	-	47,335	17,704	242,287	38,384	37,604	32,868	32,086	39,797	374,678	961,385	2,840,291	920,887	1,882,689	22,387	64,304	106,420	-	-	7,661,343
N. CENTRAL	2040	-	45,136	19,242	181,067	383,459	800,143	213,395	25,820	94,626	882,046	1,276,132	2,730,711	964,630	2,039,320	34,085	47,977	37,715	9,920	33,876	9,398,732
SOUTH	1993	30,258	87,382	15,702	284,146	996,497	689,392	760,482	274,076	346,399	637,027	1,131,182	2,423,904	1,043,831	1,911,080	640,132	888,437	780,270	172,134	36,129	12,972,820
WEST	-	11,140	120,442	20,371	121,606	323,889	238,821	262,038	75,064	80,871	600,664	862,829	1,736,320	663,660	517,286	232,046	280,443	233,375	-	23,877	6,144,626
U.S. TOTAL	4033	80,388	266,033	73,319	904,482	1,792,[illegible]	1,660,160	1,280,345	486,880	671,061	2,395,215	4,232,649	9,735,439	3,420,146	6,391,387	927,418	1,280,381	1,160,985	182,072	93,882	36,177,784

Source: The [illegible] American Hospital Association Annual Survey of Hospitals

TWO MILLION PATIENT DISCHARGE SAMPLE CHARACTERISTICS

The two million patient discharge sample is drawn quarterly in increments of approximately 500,000 discharge records. Each quarter's sample is extracted using all hospitals submitting three complete months of data for that quarter. Hospitals included for the year do not comprise a cohort. The chart below displays, by quarter, the geographic location and attributes of the sample included in the 1986 Risk-Adjusted Hospital Mortality Norms Workbook.

Hospital Characteristic	1st Q86		2nd Q86		3rd Q86		4th Q86	
Region	No.	%	No.	%	No.	%	No.	%
North Central	182	34.5	146	32.4	141	32.1	162	33.5
Northeast	81	15.3	65	14.4	61	13.9	63	13.0
South	136	25.8	126	28.0	132	30.1	123	25.4
West	129	24.4	113	25.1	105	23.9	136	28.1
Bedsize								
6-99	244	46.2	206	45.8	215	49.0	225	46.5
100-199	119	22.5	102	22.7	104	23.7	109	22.5
200-399	120	22.7	99	22.0	88	20.0	108	22.3
400-499	22	4.2	26	5.8	16	3.6	23	4.8
500+	23	4.4	17	3.8	16	3.6	19	3.9
Teaching								
Major	33	6.3	29	6.4	21	4.8	25	5.2
Minor	57	10.8	52	11.6	43	9.8	58	12.0
None	438	83.0	369	82.0	375	85.4	401	82.9
Control								
Government	116	22.0	97	21.6	98	22.3	109	22.5
Nongovernment	412	78.0	353	78.4	341	77.7	375	77.5

SAMPLE METHODOLOGY AND RELIABILITY

To make the two million patient discharge sample reflect the activity of the U.S. short-term general, nonfederal hospital universe, three techniques are used.

Step 1 - Stratification

First, hospitals are stratified by factors known to affect inpatient statistics. Four stratification factors are used: bedsize, ownership, teaching status, and census division.

1. **Bedsize** represents the number of beds set up and staffed for use in the hospital. The size categories are:

   6-99
   100-199
   200-399
   400-499
   500+

2. **Ownership** describes the type of organization responsible for establishing the overall operation policies of a hospital. There are four major categories:

   Government, Nonfederal, In Large Cities includes county, state, and city hospitals in any of the 50 largest U.S. cities indicated in the most recent AHA Annual Survey of Hospitals.

   Government, Nonfederal, Not in Large Cities includes all county, state, and city hospitals not in the above category.

   Nongovernment, Not-for-Profit includes church-operated and all other not-for-profit, nongovernment hospitals.

   Nongovernment, For Profit includes all investor-owned hospitals.

3. **Teaching Status** is determined by a weighted index measuring program intensity created by Phillip and Hai.[1] The index is based on programs, memberships, and affiliations approved by various bodies. The approvals incorporated in the index are:

- Accreditation by Joint Commission on Accreditation of Hospitals
- Cancer Program approved by American College of Surgeons
- Residency approved by American Medical Association
- Medical School Affiliation reported by American Medical Association
- Hospital-controlled professional nursing school, reported by National League for Nursing
- Member of Council of Teaching Hospitals of the Association of American Medical Colleges.

Based on this index, hospitals are classified by one of three teaching status groups:

Nonteaching Institution
Minor Teaching Institution
Major Teaching Institution

The statistical formula used to determine teaching status is in Appendix 1.

4. **Census Division** places the 50 states and the District of Columbia into nine geographical areas defined by the U.S. Department of Commerce, Bureau of the Census. These nine divisions and their corresponding regions are:

Division	Region
New England	Northeast
Middle Atlantic	
East North Central	North Central
West North Central	
South Atlantic	South
East South Central	
West South Central	
Mountain	West
Pacific	

State inclusions are listed in Appendix 1.

Once stratified by these factors, the hospitals are organized into a matrix. The matrix has 540 cells. This number is derived by multiplying the number of stratification groups: 5 (bedsize) x 4 (ownership) x 3 (teaching status) x 9 (census division) = 540. Each matrix cell represents a particular configuration of bedsize, ownership, teaching status, and census division. A table illustration of the matrix is displayed in Appendix 2.

Step 2 - Estimation

Of the 540 cells created by hospital stratification, only about 260 are represented by hospitals in the universe. When each of the two million patient discharge sample records is assigned to the appropriate stratification cell, about 140 of the 260 cells are filled. This leaves about 120 cells that must be estimated from the cells containing discharge records.

The estimation process utilizes a missing cell methodology designed by Richard Ament, Senior Statistician at CPHA. This method requires "borrowing" discharge records from neighboring cells. For cells where sample data are unavailable (target cells), a potential source cell (or cells) is(are) identified. The source cell(s) is(are) identical to the target cell except for a single permitted shift in one of the stratification variables, or more if needed. Rules governing this borrowing process specify which shifts are permitted in order to locate source cells as similar to the target cell as possible. All qualifying source cells are drawn on to fill a particular target cell after a weight has been assigned to each.

Step 3 - Projection

In the final step, projection factors are applied to make the sample representative of the universe of discharges from U.S. short-term general, nonfederal hospitals.

A projection factor is calculated for every cell. This number is calculated as follows:

$$\text{Projection Factor for Cell X} = \frac{\text{Total discharges from the universe represented by Cell X}}{\text{Sample records assigned to Cell X}}$$

This number signifies the estimated patient discharges, after subsequent stratification by region and risk factor, used to calculate the predicted mortality norms.

Sample Data Quality

As previously described, each patient discharge record is rigorously edited before being stored in CPHA's annual database. In addition, records in the two million patient discharge sample undergo an auditing process to eliminate uncorrected or unusual data. Any of the following conditions cause a patient discharge record to be excluded from the two million patient discharge sample and from the 1986 Risk-Adjusted Hospital Mortality Norms Workbook.

1. **Incalculable Stay**

   This includes discharges where the length of stay cannot be determined because the admission or discharge dates are absent from the patient discharge record or are illogical.

2. **Incalculable Age**

   Discharge records where the birth year or admission date is unrecorded or illogical are excluded.

3. **No Principal Diagnosis**

   Any discharge record without a principal diagnosis is excluded.

4. **Disposition Inconsistency**

   Some dispositions, e.g., alive and died, are mutually exclusive. Those patient discharges whose disposition is inconsistent are excluded.

Precision of Estimates

The projections obtained from the two million patient discharge sample used to calculate the 1986 Risk-Adjusted Hospital Mortality Norms Workbook are subject to sampling error. The error ranges for the sample estimates are listed in the chart on the next page. These figures are given for the 95 percent confidence level in the ideal case where the projection factor is always 20 for patient discharges of any given kind.

As an example, a projected figure of 10,000 patient discharges has a confidence limit of ±8.8 percent. This means that 95 percent of the time, an estimate of 10,000 patient discharges will fall within a range of ±8.8 percent of that number, i.e., 9,120 to 10,880. These figures account for random sampling but do not allow for sampling bias; thus the ranges should be viewed as minimum allowances for error.

NOMINAL 95% CONFIDENCE LIMITS FOR ESTIMATES MADE FROM CPHA'S TWO MILLION PATIENT DISCHARGE SAMPLE

Estimated Count	Nominal 95% Confidence Limits	
100	-68%	+130%
200	-52%	+ 84%
400	-39%	+ 54%
1,000	-26%	+ 32%
2,000	± 20%	
4,000	± 14%	
10,000	± 8.8%	
20,000	± 6.2%	
40,000	± 4.4%	
100,000	± 2.8%	
200,000	± 2.0%	
400,000	± 1.4%	
1,000,000	± 0.9%	

Data quality and the reliance on small, nonrepresentative samples are two of the concerns researchers give voice to whenever mortality data are recommended to assess quality of medical care.

First, researchers point out that decisions about quality of medical care, which may reflect on provider performance, depend on knowledge of and accuracy of mortality coding and reporting practices.

Recent studies, sponsored by the Rand Corporation, reveal widespread underreporting of hospital mortality for Medicare patients, averaging greater than 6 percent.[2] Moreover, regional variations in lengths of stay among hospitals, differences in patient discharge practices, and unequal access to home care and hospice services in communities, determine the number of reported hospital deaths. These practices, left undocumented, can lead to erroneous and distorted conclusions drawn from inaccurate data about provider performance.

Second, several of the studies pioneering the application of mortality data are based on small patient samples or represent analysis of only a few types of hospital patients.[3] As a consequence, recommendations based on these data may be less reliable if generalized across the hospital patient universe.

IMPORTANT NOTE:

Through the approach favored in this workbook, every attempt is made to answer apprehensions about data quality, and small, nonrepresentative samples.

Member hospitals contributing to the database use standardized report formats. Abstractors have ongoing training. Moreover, efforts to minimize errors are met through automated editing and data checks at the time of processing.

Pains have been taken to assure breadth and representativeness through careful statistical sampling of the largest hospital patient discharge database available.

This is not to claim that there are no anomalies caused by diverse reporting practices or that data errors are entirely edited in the sample used to construct the mortality norms. When interpreting the mortality norms for quality assessment, CPHA researchers acknowledge the importance of these issues and have tried to minimize their effect.

Organization of 1986 Risk-Adjusted Hospital Mortality Norms

The 1986 Risk-Adjusted Hospital Mortality Norms are divided into two types of tables:

1. DRG Cluster Norms
2. Physician Specialty Norms

DRG Cluster Norms

These tables, beginning on Page 1 of the Tables Section, are stratified by DRG cluster, geographic region, presence or absence of complications and comorbidities (CCs), and age group. There are 326 DRG clusters.

DRG Cluster

Diagnosis Related Groups (DRGs), of which there are 472 in use, were not designed as a patient outcome measure. Some of the factors associated with increased risk of death, e.g., age and comorbidity, for particular clinical conditions, are the basis for DRG divisions. This is most obvious for Acute Myocardial Infarction (AMI), DRGs 121, 122, and 123. DRG 123 includes only patients who died.

Consequently, the DRGs have been regrouped into clusters to examine how the factors used for DRG divisions, e.g., age and comorbidity, are associated with increased risk of death. This regrouping of patients includes 326 categories. Appendix 3 provides a mapping of DRG clusters to DRGs along with the English description of the clinical condition.

Physician Specialty Norms

These tables, beginning on page 318 of the Tables Section, are stratified by physician specialty which combine several DRG clusters or DRGs. They are also stratified by geographic region, presence or absence of CCs, and age group.

As their name implies, the physician specialty tables represent the organization of physicians into fields of expertise, e.g., pediatrics or general surgery. These tables consist of the DRGs commonly treated in each specialty.

The specialties and their corresponding DRGs are listed in Appendix 4.

IMPORTANT NOTE:

> The physician specialty tables may be used to supplement an evaluation of program lines or an individual physician on the criterion of quality; it is therefore important to recognize that clinical homogeneity, and as a result, the reliability of the mortality norms is diminished when several DRGs are combined.
>
> Broad groupings of DRGs forego the opportunity to determine the extent to which case mix is associated with the risk of death.

Geographic Region

As previously described, the two million patient discharge sample is initially stratified by nine census divisions. These nine divisions are collapsed into four regions in the 1986 Risk-Adjusted Hospital Mortality Norms:

1. Northeast
    - New England
    - Middle Atlantic
2. North Central
    - East North Central
    - West North Central
3. South
    - South Atlantic
    - East South Central
    - West South Central
4. West
    - Mountain
    - Pacific

State inclusions for the four regions are listed in Appendix 1. The U.S. mortality norms incorporate all four regions.

Presence or Absence of Complications and Comorbidities (CCs)

To determine the presence or absence of complications or comorbidities (CCs) a patient's secondary diagnoses are compared to a list of ICD-9-CM diagnosis codes defined by the Health Care Financing Administration (HCFA) as CCs.

The HCFA definitions are:

- A complication is a condition that arises during the hospital stay that prolongs length of stay by at least one day in approximately 75 percent of the cases.
- A comorbidity is a preexisting condition that will, because of its presence with a specific diagnosis, cause an increase in length of stay by at least one day in approximately 75 percent of the cases.

The list of CCs is included as Appendix 5.

To ensure ease of use in the workbook format and consistency with HCFA definitions, complications, which occur during the patient's stay and may be hospital or physician-caused, e.g., postoperative wound infections, have not been separated from comorbidities, which are preexisting conditions and unrelated to provider performance, e.g., diabetes.

Ideally, when adjusting mortality risk factors, patient complication codes need to be taken out. Recognizing the time constraints against subtracting patients with specified complications manually in the workbook, and acknowledging the familiarity with CCs, codes constituting complications are not deleted from the predicted mortality norms.

Age Group

Patients are stratified by the following age groups (in years):

<65 years

65-69

70+

Predicted Mortality Norms

The norm represents a risk-adjusted predicted death rate. Each norm is practice-derived or empirically-based. In other words, the evaluation of risk factors is based on existing care patterns or the two million patient discharge sample, which includes all payors and patient types and is nationally representative to the universe of U.S. short-term general, nonfederal hospitals.

IMPORTANT NOTE:

> The practice-derived characteristic of the predicted mortality norms is significant. It is not the intention of CPHA researchers to establish a standard recommending what national and regional death rates should be. These predicted mortality norms are descriptive rather than prescriptive.

The predicted mortality norms are also risk-adjusted, taking into account differences in case mix and complexity. The risk-adjustment factors included for each projected patient discharge are:

1. DRG Cluster
2. Presence or absence of complications and comorbidities (with CCs or without CCs)
3. Age group (<65, 65-69, 70+)

Technical Model

To obtain the national and regional predicted mortality norms, the procedure is:

1. The projected patient counts are derived from the two million patient discharge sample.
2. The projected patient discharges are split into their respective:
   - region
   - DRG cluster
   - CC category
   - age group.
3. The projected number of patient discharges who died and the projected total number of patient discharges in each stratified group are counted.
4. The total projected number of patient discharges in each stratified group who died are divided by the total projected number of patient discharges in that group.
5. This proportion is multiplied by 100 to obtain the norm, expressed as a percent.

Conceptual Model

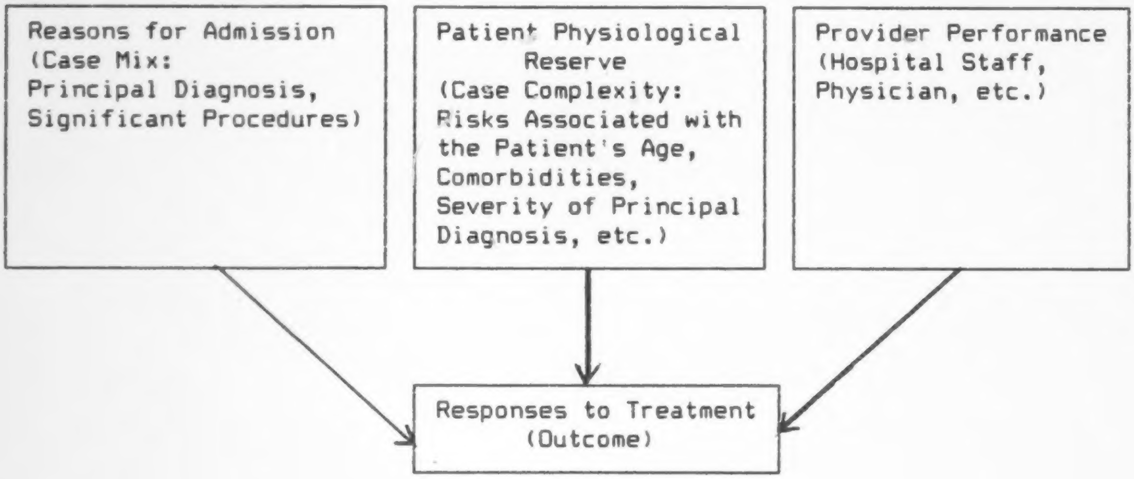
In a recent paper by CPHA researchers, the authors suggest that patient health outcomes are the result of three factors:

- case mix; the reasons for hospital admission (principal diagnosis, significant procedures);

- case complexity; the risks associated with the patient's level of physiological reserve (age, comorbidities, race, sex, family history of disease, health behavior, etc.); and

- provider performance.

The introduction of these factors is illustrated in the following graphic:


Reasons for Admission (Case Mix: Principal Diagnosis, Significant Procedures)
Patient Physiological Reserve (Case Complexity: Risks Associated with the Patient's Age, Comorbidities, Severity of Principal Diagnosis, etc.)
Provider Performance (Hospital Staff, Physician, etc.)
Responses to Treatment (Outcome)

Accordingly, differences in outcome or provider performance relating to quality can be isolated, once differences in reasons for admission and patient physiological reserve, i.e., case mix and complexity, have been adjusted.

The introduction of this conceptual model underlines the importance of risk-adjustment. In addition, it strengthens the argument favoring mortality indices in which patient-level rather than hospital-level variables are used. This contrasts with the approach initially taken by the Health Care Financing Administration (HCFA) in March, 1986 when it first published provider-specific mortality data based on a hospital-level approach. CPHA's researchers, recognizing the problems of the hospital-level approach to mortality data applications early on, developed the risk-adjusted mortality rate model relying on patient-level data. Since many completing this workbook are familiar with the current HCFA methodology, the table below provides a brief comparison.

Comparison Point	CPHA Risk-Adjusted Mortality Methodology (used in 1986 workbook)	HCFA Risk-Adjusted Mortality Methodology (used in 1987)
Choice of risk factors	Based on validated model • practice-derived factors constructed from discharge data in U.S. short-term general, nonfederal hospitals	Based on unvalidated model • expert opinion • experience from previous analysis (March, 1986)
Level of analysis	Patients	Patients
Dependent variable	In-hospital deaths	Deaths within 30 days of admission
Risk factors	DRG cluster (326) Presence or absence of complications and comorbidities Age group	Broad DRG groupings (16 high or low risk of death categories and one residual grouping) Age Sex Complicating diagnoses (limited number) Prior hospitalization in 1986 Transfer status
Scope	All patients	Medicare patients

While HCFA's shift to the patient-level approach signals a step in the right direction, the newest model is emblematic of the concern researchers have expressed over the dependence on inappropriate and untested risk-adjusted mortality rate models as indicators of quality. Some advisories about the current HCFA model cited by CPHA researchers are:

Unvalidated Model

The model HCFA currently recommends has not yet been validated. Information about validation is not included in the public record regarding any tests to which the methodology has been submitted during the year HCFA has had to develop and test a new model. Consequently, it is unknown whether HCFA's model is a valid predictor of mortality.

In contrast, the model which resulted in the methodology incorporated into this workbook, has been tested initially with 1983 data from U.S. short-term general, nonfederal hospitals. The findings have been encouraging; the model claims a strong relationship between predicted and actual death rates over all DRG clusters and hospital combinations.[4]

Inappropriate DRG Groupings

The caveats previously mentioned when using the physician specialty tables in this workbook hold true for the HCFA-defined high and low risk of death DRG categories. The groupings are too broad and all-encompassing. As a result, they forfeit the potential clinical homogeneity of the DRG classification system. It is well known that death rates associated with different principal diagnoses vary greatly; it is thus necessary to develop as clinically homogeneous groups as possible when modelling factors associated with risk of death.

Misleading Dependent Variable

The HCFA methodology recommends a 30-day survival following the last admission in 1986 as the principal dependent variable for provider performance. The rationale for this specific choice is not sufficient. While it seems HCFA is attempting to compensate for widespread variations in lengths of stay, by providing an equal observation interval, the strategy has several negative effects.

First, it is impossible to determine whether poor hospital care caused the majority of deaths occurring within 30 days of admission, since most deaths occur after discharge. Second, using the patient's last admission fails to take into account other hospitalizations during the year when the patient survived. Third, it is infeasible for providers to verify HCFA's claims about out-of-hospital deaths and last admissions, thus making such data less credible.

The CPHA methodology, unlike that of HCFA's, does not assign any credit nor does it discredit any provider by implicitly deciding a provider should be held responsible for a death once a patient has left.

Noting some of the caveats of the HCFA model does not mean the CPHA model is flawless. A description of the error ranges used in conjunction with the predicted mortality norms follows.

Error Ranges

Each norm lists an error range, the percent denoted within the parentheses. There are two primary reasons for providing an error range:

- the projections, and consequently the norms derived from the two million patient discharge sample, are subject to sampling error; and
- the error range serves as a cautionary flag when interpreting the norms.

The error range is given for an approximate 99 percent confidence level. It represents three times the standard error for discharges in the two million patient discharge sample stratified by census region, DRG cluster, CC status, and age group. The error range is contingent upon the discharge projection numbers; thus the error ranges should be viewed as minimum allowances for error.

To give an example, the national predicted mortality norm for Stomach, Esophageal, and Duodenal Procedures (DRG cluster 106) for a patient discharge with CCs, in age group 70+ is 15.1 percent. The error range is ±0.8 percent. This means 99 percent of the time, the mortality rate for discharges with those attributes will fall between 15.1-0.8 and 15.1+0.8, i.e., 14.3 percent to 15.9 percent. In this illustration, the error range is small, indicating acceptance of the norm as an accurate measure of the mortality rate for all such discharges.

A second example, however, illustrates the rationale for including error ranges and the need to exercise caution when using them to make inferences about quality of medical care.

The national predicted mortality norm for heart transplant, DRG cluster 69, for a patient discharge with CCs, in age group 65-69, is 100 percent with an error range of 30.9 percent. The mortality rate is between 100 percent and 69.1 percent, thus indicating less accuracy in the norm as a measure of the mortality rate of all such discharges.

The heart transplant national norm is revealing in two ways. First, it signifies the low accuracy level for this norm; not all heart transplants result in an in-hospital death. Second, it indicates the sample size for this class of patients is small. There are no data for three of the four regions (denoted by the hyphen mark) for patient discharges with CCs, in age group 65-69.

It is not surprising, however, this norm would be less reliable than others, because heart transplants are performed at designated treatment centers, usually referral centers, not represented in the two million patient discharge sample. Other specialty hospitals have also been excluded from the sample.

IMPORTANT NOTE:

The smaller the error range of a national or regional predicted mortality norm, the more reliable the norm; the higher the error range the less accurate the norm as a measure of the mortality rate for a specific category of patient discharges.

In reading the norms, a hyphen denotes there are no data for the patient discharge category.

Exclusions

In addition to the hospital exclusions, there are those performed at the patient level. The following patients are not included in the 1986 Risk-Adjusted Hospital Mortality Norms Workbook.

1. Stillborns
2. Newborns
3. Discharges transferred to another short-term hospital
4. Discharges with stays less than one day, discharged alive.

Stillborn discharges are excluded for the obvious reason that all have died. In the three exclusions where the patient is discharged alive, it is impossible to evaluate the treatment of those patients because hospitalization is abbreviated. In addition, the newborn and patient discharge transfer data are incomplete, and many of the less than one day patient discharges are presumably outpatients.

There are several reasons it is necessary to keep in mind the hospital- and patient-level exclusions as well as the method for constructing the predicted mortality norms.

The first involves the charge, sometimes leveled against mortality data, that such data are a nonspecific indicator of quality of medical care. According to this critique, mortality data are poor quality measures because most patients do not die in the hospital, though their treatment may have been negligent or they may have been misdiagnosed. Thus, it is important to clearly understand and acknowledge the limits of mortality data in order to prevent overreliance on numbers, in this case the predicted mortality norms. The appropriate use of such norms requires an appreciation of the overall care patterns in an institution or of a physician.

Second, the 1986 Risk-Adjusted Hospital Mortality Norms have practical applications and will be used as a complement to other data sources used to administer quality assurance programs. Consequently, it is essential to know how to calculate and interpret the norms when comparing them to individual institutions and providers.

Calculating the Actual Death Rates

To obtain actual death rates to compare to the predicted mortality norms, this procedure is recommended:

1. DETERMINE THE PATIENT SAMPLE, i.e., THE TOTAL NUMBER AND TYPES OF PATIENTS, AND THE TIME PERIOD, i.e., YEAR, TO BE STUDIED.

   For example, if the unit of analysis is all hospital patients, use 1986 total patient discharges. Alternatively, if the unit of analysis is employees who were hospitalized with cardiovascular DRGs, use employees in 1986 who were discharged with the specified DRGs, and so on.

IMPORTANT NOTE:

> Physicians can more reliably calculate their own actual death rates by replacing data for one year, with the number of patients they have treated for specific clinical conditions during their professional careers. For example, a neurosurgeon has treated 80 patients in DRG cluster 7, Peripheral & Cranial Nerve & Other Nerve System Procedures, 2 of whom have died over his/her career. The larger numbers enable comparisons (individual practitioner databases do not compare in size to hospital databases). In addition, the total career figures give credit to new learning and experience.
>
> The same rule holds true when individual physician actual death rates are calculated for an institution or agency, such as a hospital or PRO.

2. CLASSIFY THE PATIENT SAMPLE INTO THE DRG CLUSTERS OR PHYSICIAN SPECIALTIES UNDER EXAMINATION.

   a. If examining a DRG cluster, e.g., DRG 7, Peripheral & Cranial Nerve & Other Nerve System Procedures (page 7 in the DRG Cluster Tables), note it combines DRGs 7 and 8.

      For purposes of illustration in 1986, a hospital has 300 patient discharges in DRG 7 and 300 patients discharges in DRG 8. To get the cluster total:

      $$\begin{array}{rl} & 300 \text{ patient discharges} \\ + & \underline{300} \\ & 600 \text{ patient discharges in DRG cluster 7} \end{array}$$

   b. If examining physician specialty or a program corresponding to a specialty, e.g., Neurosurgery (page 318 in the Tables Section), note it encompasses DRGs 1, 2, 3, 4, 7, 8, 27, 28, 29, and 30. All patients in each DRG are added together to obtain the patient sample for the physician specialty or program.

      To illustrate, a hospital discharged 50 patients in each of the DRGs comprising the neurosurgery program in 1986. To get the program or specialty total:

      $$\begin{array}{rl} & 10 \text{ DRGs (1-4, 7-8, 27-30)} \\ \times & \underline{50} \text{ patient discharges} \\ & 500 \text{ patient discharges in the neurosurgery specialty} \end{array}$$

3. STRATIFY AND PLACE THE DRG CLUSTER PATIENT DISCHARGES OR PHYSICIAN SPECIALTY PATIENT DISCHARGES INTO THEIR APPROPRIATE RISK CATEGORIES:

- with complications/comorbidities
  <65 years
  65-69
  70+

- without complications/comorbidities
  <65 years
  65-69
  70+

To continue the illustration using DRG cluster 7, suppose there are 100 patients (out of 600 in DRG cluster 7) in each of the risk categories.

Total number of patient discharges in DRG Cluster 7 = 600.

Patients with CCs			Patients without CCs		
<65	65-69	70+	<65	65-69	70+
100	100	100	100	100	100

4. IN THE SPACE PROVIDED (THE EMPTY BOXES AT THE BOTTOM OF EACH TABLE), WRITE IN THE TOTAL NUMBER OF PATIENT DISCHARGES IN EACH RISK CATEGORY BELOW THE DIVISION SIGN.

DRG CLUSTER: 7
Peripheral & Cranial Nerve & Other Nerve Syst Procedures
DRG(s): 7, 8

ACTUAL DEATH RATES

PROVIDER

	With CCs Age		
	<65	65-69	70+
No. of Patients Who Died **Total No. Patients**	÷ 100	÷ 100	÷ 100
	=	=	=
% Patients Who Died			

	Without CCs Age		
	<65	65-69	70+
No. of Patients Who Died **Total No. Patients**	÷ 100	÷ 100	÷ 100
	=	=	=
% Patients Who Died			

As illustrated above, the total number of patient discharges in each risk category for DRG cluster 7 is recorded. This number represents the denominator for the actual death rate.

5. DETERMINE THE NUMBER OF PATIENT DISCHARGES IN EACH RISK CATEGORY WHO DIED.

Again following the example, these patient discharges died in each risk category for DRG cluster 7:

Patients with CCs			Patients without CCs		
<65	65-69	70+	<65	65-69	70+
10	15	30	5	10	15

The total number of patient discharges who died is 85 out 600 patient discharges in DRG cluster 7.

6. IN THE SPACE PROVIDED, WRITE IN THE NUMBER OF PATIENT DISCHARGES WHO DIED ABOVE THE DIVISION SIGN.

DRG CLUSTER: 7
Peripheral & Cranial Nerve & Other Nerve Syst Procedures
DRG(s): 7, 8

ACTUAL DEATH RATES

PROVIDER

With CCs
Age

	<65	65-69	70+
No. of Patients Who Died	10 ÷	15 ÷	30 ÷
Total No. Patients			
	=	=	=
% Patients Who Died			

Without CCs
Age

	<65	65-69	70+
No. of Patients Who Died	5 ÷	10 ÷	15 ÷
Total No. Patients			
	=	=	=
% Patients Who Died			

As illustrated above, the number of patient discharges who died in each risk category for DRG Cluster 7 is recorded. This number represents the numerator for the actual death rate.

7 THEN DIVIDE THE TOTAL NUMBER OF PATIENT DISCHARGES WHO DIED BY THE TOTAL NUMBER OF PATIENT DISCHARGES IN EACH RISK CATEGORY AND MULTIPLY BY 100.

To continue the example, the total number of patient discharges who died in each risk category is divided by the respective number of patient discharges in each risk category for DRG cluster 7 and multiplied by 100. The results are displayed below.

DRG CLUSTER: 7
Peripheral & Cranial Nerve & Other Nerve Syst Procedures
DRG(s): 7, 8

ACTUAL DEATH RATES

PROVIDER

	With CCs		
	Age		
	<65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died	10%	15%	30%

	Without CCs		
	Age		
	<65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died	5%	10%	15%

8. THE RESULT IS THE PERCENT OF PATIENT DISCHARGES IN EACH RISK CATEGORY WHO DIED. THIS REPRESENTS THE ACTUAL DEATH RATE.

   To finish the example, the actual risk-adjusted death rates for DRG cluster 7, Peripheral & Cranial Nerve and Other Nerve System Procedures are:

   Patients with CCs, Age <65 = 10%
   Patients with CCs, Age <65-69 = 15%
   Patients with CCs, Age 70+ = 30%
   Patients without CCs, Age <65 = 5%
   Patients without CCs, Age 65-69 = 10%
   Patients without CCs, Age 70+ = 15%

CALCULATING ERROR RANGES FOR THE ACTUAL DEATH RATES

The value of the predicted mortality norms is enhanced when an error range or confidence interval for the actual death rates is figured.

To obtain the error range for an actual death rate, follow this procedure:

1. OBTAIN THE ACTUAL DEATH RATE, i.e., THE PERCENT OF PATIENT DISCHARGES WHO DIED AND THE TOTAL NUMBER OF PATIENT DISCHARGES IN EACH RISK CATEGORY, FOR THE DRG CLUSTER OR PHYSICIAN SPECIALTY.

   To simplify, only one error range for one risk category for a DRG cluster is presented. Returning to the example used to calculate the actual death rates for DRG cluster 7, the actual death rate is 10 percent and the total number of patients is 100 for patient discharges with CCs, age <65.

2. GO TO APPENDIX 6, THE ERROR RANGE TABLES ON PAGES 21-24 IN THE APPENDIX SECTION.

   The horizontal axis of the table (across the top of the page) represents the total number of patient discharges starting at 5 up to 1600. The vertical axis of the table (down the page) represents the actual death rate or the percent of patient discharges who died, starting at 1 percent up to 50 percent.

3. FIND THE TOTAL NUMBER OF PATIENT DISCHARGES ON THE HORIZONTAL AXIS OR THE NUMBER CLOSEST AND THE PERCENT WHO DIED ON THE VERTICAL AXIS [SINGLE-BOXED]. LOCATE THE CORRESPONDING NUMBER [DOUBLE-BOXED].

PERCENT					Patient Number							
DIED	65	70	75	80	85	90	95	100	105	110	115	120
1%	3.70	3.57	3.45	3.34	3.24	3.15	3.06	2.98	2.91	2.85	2.78	2.72
2%	5.21	5.02	4.85	4.70	4.56	4.43	4.31	4.20	4.10	4.00	3.92	3.83
3%	6.35	6.12	5.91	5.72	5.55	5.39	5.25	5.12	4.99	4.88	4.77	4.67
4%	7.29	7.03	6.79	6.57	6.38	6.20	6.03	5.88	5.74	5.61	5.48	5.37
5%	8.11	7.81	7.55	7.31	7.09	6.89	6.71	6.54	6.38	6.23	6.10	5.97
6%	8.84	8.52	8.23	7.97	7.73	7.51	7.31	7.12	6.95	6.79	6.64	6.50
7%	9.49	9.15	8.84	8.56	8.30	8.07	7.85	7.65	7.47	7.30	7.14	6.99
8%	10.09	9.73	9.40	9.10	8.83	8.58	8.35	8.14	7.94	7.76	7.59	7.43
	10.65	10.26	9.91	9.60	9.31	9.05	8.81		8.38	8.19	8.01	7.84
10%								9.00	8.78	8.58	8.39	8.22
	11.64	11.22	10.84	10.49	10.18	9.89	9.63		9.16	8.95	8.75	8.57
12%	12.09	11.65	11.26	10.90	10.57	10.28	10.00	9.75	9.51	9.30	9.09	8.90
13%	12.51	12.06	11.65	11.28	10.94	10.63	10.35	10.09	9.85	9.62	9.41	9.21
14%	12.91	12.44	12.02	11.64	11.29	10.97	10.68	10.41	10.16	9.93	9.71	9.50
15%	13.29	12.80	12.37	11.98	11.62	11.29	10.99	10.71	10.45	10.21	9.99	9.78

Comparison and Interpretation of Actual Death Rates to Predicted Mortality Norms

The next step involves a straightforward comparison. Simply look at the actual death rate and error range for a DRG cluster or physician specialty in each risk category, and determine the difference.

For the purpose of illustration, one comparison of an actual death rate to a predicted mortality norm is described on the next page. The actual death rate for DRG cluster 7, Peripheral & Cranial Nerve & Other Nerve System Procedures, is compared to the national or U.S. predicted mortality norm for patient discharges with CCs, in age group 70+. The actual death rate is 30 percent, with an error range of ±13.8 percent (16.2 percent to 43.8 percent). The predicted mortality norm is 18.5 percent with an error range of ±2.4 percent (16.1 to 20.9).

To make the comparison more serviceable, consider the actual death rate and predicted mortality norm as ranges themselves when each of their error ranges is factored in. In this instance, the actual death rate range is 16.2 to 43.8. The predicted mortality norm range is 16.1 to 20.9. Since the actual death rate range overlaps the predicted mortality norm range, the user can assume, that at least for DRG cluster 7, the actual death rate range is not aberrant from national mortality patterns.

DRG CLUSTER: 7
Peripheral & Cranial Nerve & Other Nerve Syst Procedures
DRG(s): 7, 8

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	( )	( )	18.5 (2.4)
Northeast	( )	( )	( )
North Central	( )	( )	( )
South	( )	( )	( )
West	( )	( )	( )

Region	Without CCs Age <65	 65-69	 70+
U.S.	( )	( )	( )
Northeast	( )	( )	( )
North Central	( )	( )	( )
South	( )	( )	( )
West	( )	( )	( )

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			30% (13.8)

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

IMPORTANT NOTE:

> In most instances, an institution- or provider-specific actual death rate range, i.e., after the error range has been added and subtracted, will overlap the range figured for a specific predicted mortality norm. This fact does not afford the user to make inferences about quality of medical care, e.g., the institution or provider offers "average" quality of care; it simply means the institution or provider is not a statistical outlier. A statistical outlier signifies that an institution's or provider's actual death rate range and the predicted mortality norm range for a specific DRG cluster do not overlap.
>
> Similarly, if the institution or provider's actual death rate range does not overlap a specific predicted mortality norm range, i.e., it is higher or lower, its outlier status does not necessarily signify the provision of high or low quality medical care. It simply suggests that further investigation into the reasons for outlier status are in order.

For example, suppose the user compares the actual death rate range for DRG cluster 7, Peripheral & Cranial Nerve & Other Nerve System Procedures for patient discharges with CCs, in age group 70+ to the Western region predicted mortality norm range. The actual death rate range is 16.2 to 43.8, while the Western region predicted mortality norm range is .7 to 14.7.

In this instance, where the actual death rate range does not overlap and is higher than the predicted mortality norm range, the user might accomplish these additional steps:

- question the accuracy of the norm for patient discharges under study by adhering to the rule of thumb: the higher the error range the less reliable the norm;
- ascertain whether the patient samples upon which the actual death rates are calculated are fairly comparable to the patient discharges on which the norm is based; and
- establish whether the risk factors are appropriate for the patient sample for which the actual death rates are calculated.

To finish the illustration, the user finds the error ranges for DRG cluster 7 are small and thus is able to conclude the norms are reliable for that cluster; and that the patient sample for the specific provider under study exclusively includes referrals of very sick patients, who are over 90 years old. The value of the additional inquiry is that it furnishes information which helps account to some degree, for the higher actual death rate range of an individual provider in the Western region for DRG cluster 7.

If, however, such an investigation yields affirmative responses to each category of inquiry outlined above, it may be appropriate in cases where actual death rate ranges are outliers, to conduct an in-depth quality assessment.

IMPORTANT NOTE:

When interpreting the predicted mortality norms in this workbook, outlier status, i.e., the actual death rate ranges do not overlap with the predicted mortality norm ranges, does not confer a poor quality of care label on those institutions or providers with higher actual mortality rates or "center of excellence" designations on those with lower actual mortality rates. Outlier status simply means further investigation may be appropriate.

The 1986 Risk-Adjusted Hospital Mortality Norms Workbook is most valuable when it is used in conjunction with information about:

- limitations about mortality data applications;
- special characteristics of the patient sample of the institution or provider under study;
- other risk-adjusted mortality rate methodologies for comparative purposes; and
- other quality measures to complement mortality data, e.g., post-surgical complications and readmission rates, integrated into a comprehensive quality assurance program.

Consulting Services

The research staff who created the 1986 Risk-Adjusted Hospital Mortality Norms Workbook is strongly committed to improving the applications of quality measures in general and in providing support and advice to users. Below is a listing of additional support services offered by CPHA staff:

- users with questions about the workbook and other CPHA publications and research services, contact 1-800-521-6210, Extension 3534.
- users wanting to explore or obtain on-site education or consulting sessions, or reprints of papers on the new Risk-Adjusted Mortality Index and other quality issues, also contact 1-800-521-6210, Extension 3534.
- users representing PAS hospitals interested in obtaining the requisite data items, e.g., 1986 patient discharges by DRG cluster, CC status, and age group, through on-line services or other reporting packages, contact 1-800-521-6210, Extension 2334.

The CPHA Research Services staff is interested in user evaluation of the 1986 Risk-Adjusted Hospital Mortality Norms Workbook. Please call toll free with your suggestions.

NOTES

[1] P. Joseph Phillip and Abdul Hai, An Index of Programs for Hospitals (Chicago: American Hospital Association, 1976).

[2] Mark S. Blumberg, "Comments on HCFA Hospital Death Rate Statistical Outliers," Health Services Research 21:6 (1987):718.

[3] See DesHarnais, Susan et al., "Using Mortality Statistics to Evaluate Hospital Performance," Michigan Hospitals (October 1987):22, for a listing of recent outcome studies.

[4] Ibid., p. 26.

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RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
U.S.	15.0 (1.1)	18.7 (2.3)	21.9 (1.4)
Northeast	17.2 (2.6)	15.2 (5.1)	31.0 (2.9)
North Central	13.2 (2.0)	14.8 (4.0)	19.7 (2.6)
South	15.3 (1.8)	29.4 (4.4)	21.5 (2.4)
West	14.9 (2.4)	12.8 (5.7)	15.3 (3.1)

Region	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	4.0 (1.1)	4.1 (2.9)	7.1 (2.0)
Northeast	2.4 (2.7)	5.1 (7.8)	17.1 (4.9)
North Central	3.2 (2.0)	8.7 (5.6)	4.3 (3.6)
South	6.2 (1.7)	3.0 (4.6)	5.6 (3.3)
West	1.7 (2.6)	0.0 (6.0)	5.7 (4.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 2
Craniotomy for Trauma Age >17
DRG(s): 2

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs		
	Age		
	<65	65-69	70+
U.S.	20.0 (1.7)	34.9 (6.1)	33.7 (2.7)
Northeast	25.5 (4.6)	43.5 (20.1)	41.5 (6.2)
North Central	25.0 (3.7)	28.2 (10.8)	43.6 (5.7)
South	14.9 (2.9)	45.6 (11.0)	24.3 (4.8)
West	19.6 (3.3)	28.0 (11.4)	30.7 (5.6)

Region	Without CCs		
	Age		
	<65	65-69	70+
U.S.	10.3 (2.3)	0.0 (8.7)	21.1 (5.0)
Northeast	4.9 (5.6)	0.0 (14.4)	19.3 (9.9)
North Central	12.0 (5.6)	0.0 (21.8)	0.0 (13.1)
South	8.7 (3.4)	0.0 (23.8)	33.6 (7.7)
West	16.5 (4.9)	0.0 (14.9)	10.6 (12.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs		
	Age		
	<65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs		
	Age		
	<65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 3
Craniotomy Age <18
DRG(s): 3

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

	With CCs		
	Age		
Region	<65	65-69	70+
U.S.	10.2 (1.8)	– (–)	– (–)
Northeast	11.6 (4.8)	– (–)	– (–)
North Central	13.3 (4.4)	– (–)	– (–)
South	7.1 (2.6)	– (–)	– (–)
West	14.1 (4.1)	– (–)	– (–)

	Without CCs		
	Age		
Region	<65	65-69	70+
U.S.	3.1 (1.6)	– (–)	– (–)
Northeast	2.6 (4.9)	– (–)	– (–)
North Central	1.2 (4.3)	– (–)	– (–)
South	2.0 (2.1)	– (–)	– (–)
West	9.4 (4.2)	– (–)	– (–)

ACTUAL DEATH RATES

PROVIDER

	With CCs		
	Age		
	<65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs		
	Age		
	<65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 4
Spinal Procedures
DRG(s): 4

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+	Region	Without CCs Age <65	 65-69	 70+
U.S.	3.4 (2.0)	16.8 (5.7)	6.0 (3.6)	U.S.	0.0 (1.4)	0.0 (6.9)	0.0 (5.7)
Northeast	0.0 (5.8)	14.7 (14.8)	0.0 (8.8)	Northeast	0.0 (4.0)	0.0 (13.3)	0.0 (14.2)
North Central	2.9 (4.2)	27.0 (8.4)	11.4 (6.8)	North Central	0.0 (2.9)	0.0 (13.2)	0.0 (11.1)
South	5.8 (3.2)	0.0 (12.2)	7.7 (7.5)	South	0.0 (2.2)	0.0 (13.1)	0.0 (9.3)
West	1.5 (4.1)	12.5 (13.7)	3.1 (6.6)	West	0.0 (2.9)	0.0 (16.4)	0.0 (12.4)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+		Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 5
Extracranial Vascular Procedures
DRG(s): 5

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	2.6 (1.6)	2.5 (1.9)	4.1 (1.1)
Northeast	3.2 (4.0)	4.9 (5.2)	2.0 (3.3)
North Central	2.7 (2.7)	2.7 (3.4)	5.5 (2.1)
South	2.8 (2.6)	1.2 (3.5)	3.0 (1.9)
West	1.3 (3.7)	2.3 (2.3)	5.1 (5.1)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.1 (1.2)	0.2 (1.5)	0.0 (1.1)
Northeast	0.0 (3.1)	0.0 (3.7)	0.0 (3.1)
North Central	0.0 (2.3)	0.7 (2.8)	0.0 (2.0)
South	0.0 (2.1)	0.0 (2.5)	0.0 (1.8)
West	0.6 (2.9)	0.0 (3.4)	0.0 (2.1)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 6
Carpal Tunnel Release
DRG(s): 6

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (3.5)	0.0 (7.5)	0.0 (5.7)
Northeast	0.0 (5.6)	0.0 (18.1)	0.0 (13.6)
North Central	0.0 (6.9)	0.0 (14.6)	0.0 (10.0)
South	0.0 (6.9)	0.0 (12.3)	0.0 (9.3)
West	0.0 (11.2)	0.0 (18.9)	0.0 (17.1)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.4)	0.0 (5.6)	0.0 (4.0)
Northeast	0.0 (3.6)	0.0 (10.9)	0.0 (6.2)
North Central	0.0 (3.0)	0.0 (10.7)	0.0 (8.5)
South	0.0 (2.0)	0.0 (10.0)	0.0 (8.1)
West	0.0 (3.7)	0.0 (13.8)	0.0 (12.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 7
Peripheral & Cranial Nerve & Other Nerve Syst Procedures
DRG(s): 7, 8

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	4.9 (1.7)	9.0 (4.1)	18.5 (2.4)
Northeast	7.0 (3.7)	24.3 (8.5)	21.9 (4.4)
North Central	3.0 (3.4)	9.0 (11.3)	14.4 (4.4)
South	4.5 (2.6)	5.0 (6.1)	24.2 (4.7)
West	6.5 (4.3)	0.0 (9.6)	7.7 (7.0)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.1 (0.8)	0.0 (3.4)	1.8 (2.9)
Northeast	0.0 (1.7)	0.0 (6.9)	0.0 (7.6)
North Central	0.2 (1.6)	0.0 (6.9)	0.0 (5.4)
South	0.2 (1.3)	0.0 (5.6)	3.1 (4.7)
West	0.0 (1.9)	0.0 (8.2)	3.3 (6.9)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 8
Spinal Disorders & Injuries
DRG(s): 9

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	4.0 (3.2)	16.2 (8.1)	10.7 (4.6)
Northeast	4.3 (8.5)	41.1 (12.9)	9.0 (10.4)
North Central	2.8 (6.4)	0.0 (25.5)	7.9 (10.6)
South	4.8 (4.9)	0.0 (15.2)	10.8 (7.4)
West	3.8 (7.4	0.0 (17.2)	14.4 (9.9)

Region	Without CCs Age <65	65-69	70+
U.S.	1.6 (2.6)	0.0 (11.1)	4.8 (7.3)
Northeast	0.0 (6.7)	0.0 (34.5)	30.0 (18.3)
North Central	0.0 (5.4)	0.0 (26.7)	0.0 (15.2)
South	3.5 (3.9)	0.0 (17.9)	0.0 (12.1)
West	0.0 (6.9)	0.0 (18.9)	0.0 (15.0)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 9
Nervous System Neoplasms
DRG(s): 10, 11

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	24.2 (1.1)	22.1 (2.0)	22.1 (1.4)
Northeast	22.3 (2.5)	25.6 (3.9)	23.2 (2.8)
North Central	25.7 (2.0)	25.2 (3.8)	24.8 (2.7)
South	24.4 (1.9)	21.0 (3.4)	19.3 (2.5)
West	23.4 (2.7)	14.4 (5.0)	21.6 (4.1)

Region	Without CCs Age <65	 65-69	 70+
U.S.	11.1 (1.5)	9.5 (3.8)	13.6 (2.6)
Northeast	7.2 (3.6)	0.0 (8.0)	20.1 (5.2)
North Central	13.1 (3.0)	12.0 (6.9	3.5 (5.0
South	11.2 (2.5)	9.7 (6.7)	20.0 (4.2)
West	11.7 (3.7)	16.8 (8.9)	3.6 (7.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 10
Degenerative Nervous System Disorders
DRG(s): 12

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs		
		Age	
	<65	65-69	70+
U.S.	10.0 (1.9)	6.1 (2.8)	8.5 (1.2)
Northeast	11.5 (4.2)	11.2 (6.6)	8.3 (2.5)
North Central	8.0 (3.7)	9.3 (4.9)	8.4 (2.3)
South	11.0 (3.0)	0.0 (4.8)	10.0 (1.9)
West	7.9 (5.7)	7.1 (7.2)	4.6 (3.3)

Region	Without CCs		
		Age	
	<65	65-69	70+
U.S.	0.8 (1.7)	1.7 (2.9)	1.0 (1.4)
Northeast	2.7 (4.2)	1.0 (6.5)	1.4 (3.1)
North Central	0.8 (3.3)	1.9 (5.3)	1.6 (2.8)
South	0.4 (2.6)	2.6 (4.7)	0.0 (2.2)
West	0.0 (4.7)	0.0 (8.2)	2.0 (3.7)

ACTUAL DEATH RATES

PROVIDER

	With CCs		
		Age	
	<65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs		
		Age	
	<65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 11
Multiple Sclerosis and Cerebellar Ataxia
DRG(s): 13

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

		With CCs	
Region		Age	
	<65	65-69	70+
U.S.	1.7 (2.1)	0.0 (7.8)	0.0 (5.4)
Northeast	0.0 (4.1)	0.0 (11.9)	0.0 (11.5)
North Central	1.8 (3.5)	0.0 (17.6)	0.0 (8.5)
South	2.7 (3.8)	0.0 (16.5)	0.0 (9.9)
West	2.4 (5.9)	0.0 (19.6)	0.0 (20.2)

		Without CCs	
Region		Age	
	<65	65-69	70+
U.S.	0.0 (1.4)	0.0 (12.2)	0.0 (8.4)
Northeast	0.0 (3.0)	0.0 (25.0)	0.0 (18.7)
North Central	0.0 (2.2)	0.0 (19.6)	0.0 (16.0)
South	0.0 (2.5)	0.0 (23.5)	0.0 (12.3)
West	0.0 (4.1)	0.0 (38.6)	0.0 (34.0)

ACTUAL DEATH RATES

PROVIDER

		With CCs	
		Age	
	<65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

		Without CCs	
		Age	
	<65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 12
Specific Cerebrovascular Disorders Except TIA
DRG(s): 14

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	18.1 (0.6)	17.0 (0.8)	21.5 (0.3)
Northeast	17.2 (1.4)	20.3 (1.7)	23.9 (0.7)
North Central	17.1 (1.3)	17.5 (1.6)	19.8 (0.7)
South	17.9 (1.0)	14.9 (1.4)	21.6 (0.5)
West	21.4 (1.6)	16.3 (2.0)	20.4 (0.8)

Region	Without CCs Age <65	 65-69	 70+
U.S.	8.2 (0.7)	7.5 (1.1)	12.0 (0.5)
Northeast	7.6 (1.7)	6.8 (2.3)	11.6 (1.1)
North Central	8.7 (1.5)	6.5 (2.0)	11.9 (1.0)
South	8.2 (1.1)	9.2 (1.8)	12.8 (0.8)
West	8.1 (1.7)	6.7 (2.6)	10.6 (1.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 13
Transient Ischemic Attack and Precerebral Occlusions
DRG(s): 15

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs		
	Age		
	<65	65-69	70+
U.S.	0.5 (1.0)	1.1 (1.2)	1.2 (0.5)
Northeast	0.3 (2.2)	2.6 (2.9)	1.3 (1.1)
North Central	1.0 (1.8)	0.4 (2.4)	1.5 (1.0)
South	0.5 (1.6)	1.1 (1.9)	0.9 (0.8)
West	0.0 (2.9)	0.6 (3.0)	0.8 (1.5)

Region	Without CCs		
	Age		
	<65	65-69	70+
U.S.	0.3 (0.8)	0.0 (1.2)	0.2 (0.6)
Northeast	0.0 (1.9)	0.0 (2.7)	0.4 (1.3)
North Central	0.2 (1.5)	0.0 (2.2)	0.1 (1.1)
South	0.5 (1.4)	0.0 (2.1)	0.3 (0.9)
West	0.4 (2.3)	0.0 (3.0)	0.2 (1.6)

ACTUAL DEATH RATES

PROVIDER

	With CCs		
	Age		
	<65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs		
	Age		
	<65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 14
Nonspecific Cerebrovascular Disorders
DRG(s): 16, 17

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	6.2 (2.0)	5.2 (3.4)	6.8 (1.3)
Northeast	8.0 (4.6)	8.2 (6.9)	9.6 (2.9)
North Central	5.1 (4.1)	2.6 (5.5)	5.2 (2.4)
South	3.9 (3.2)	0.0 (7.7)	6.2 (2.0)
West	11.1 (5.0)	11.6 (7.7)	7.8 (3.5)

Region	Without CCs Age <65	 65-69	 70+
U.S.	1.3 (2.2)	0.0 (4.0)	2.0 (1.7)
Northeast	1.8 (5.0)	0.0 (9.9)	1.5 (3.9)
North Central	0.2 (4.1)	0.0 (6.7)	0.7 (3.3)
South	2.2 (3.5)	0.0 (6.9)	3.5 (2.7)
West	0.0 (6.4)	0.0 (10.3)	0.0 (5.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 15
Cranial & Peripheral Nerve Disorders
DRG(s): 18, 19

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.9 (1.2)	0.0 (2.5)	2.5 (1.6)
Northeast	0.6 (2.6)	0.0 (5.5)	1.6 (3.4)
North Central	0.3 (2.2)	0.0 (4.7)	1.7 (2.9)
South	0.3 (1.9)	0.0 (3.9)	4.1 (2.5)
West	4.4 (3.2)	0.0 (6.9)	0.6 (4.7)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.7)	0.7 (2.3)	0.7 (1.6)
Northeast	0.0 (1.6)	0.0 (5.2)	0.0 (4.0)
North Central	0.0 (1.3)	1.5 (4.7)	0.0 (3.2)
South	0.0 (1.1)	0.8 (3.3)	1.4 (2.4)
West	0.0 (2.0)	0.0 (7.3)	0.0 (4.9)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 16
Nervous System Infection Except Viral Meningitis
DRG(s): 20

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+	Region	Without CCs Age <65	 65-69	 70+
U.S.	6.6 (1.5)	13.7 (4.5)	16.6 (2.8)	U.S.	0.4 (1.2)	0.0 (7.3)	3.9 (3.7)
Northeast	8.0 (3.8)	19.1 (8.5)	21.7 (5.6)	Northeast	0.0 (2.9)	0.0 (14.3)	4.8 (8.2)
North Central	6.3 (3.2)	33.8 (11.3)	16.6 (6.3)	North Central	0.4 (2.4)	0.0 (16.3)	3.6 (7.1)
South	6.1 (2.5)	7.1 (7.1)	12.6 (4.5)	South	0.8 (1.9)	0.0 (12.2)	5.4 (6.1)
West	6.6 (3.3)	1.8 (11.1)	18.8 (7.0)	West	0.0 (2.8)	0.0 (16.9)	0.0 (9.1)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+		Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷	No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 17
Viral Meningitis
DRG(s): 21

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	1.6 (2.1)	19.6 (16.7)	21.3 (8.9)
Northeast	0.0 (5.3)	- (-)	0.0 (20.3)
North Central	1.4 (4.4)	49.4 (26.9)	- (-)
South	3.0 (3.2)	0.0 (26.0)	0.0 (13.2)
West	0.0 (5.2)	0.0 (37.8)	59.4 (14.8)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.0)	0.0 (17.4)	9.7 (11.8)
Northeast	0.0 (2.3)	- (-)	0.0 (37.8)
North Central	0.0 (2.1)	0.0 (37.8)	0.0 (21.8)
South	0.0 (1.4)	0.0 (19.7)	30.2 (20.8)
West	0.0 (2.4)	- (-)	0.0 (21.8)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 18
Hypertensive Encephalopathy
DRG(s): 22

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

	With CCs		
	Age		
Region	<65	65-69	70+
U.S.	1.0 (1.8)	0.7 (3.2)	3.5 (1.9)
Northeast	0.0 (5.2)	6.2 (9.4)	0.0 (6.3)
North Central	0.8 (3.4)	0.0 (6.3)	6.3 (3.6)
South	0.6 (2.7)	0.0 (4.8)	3.1 (2.7)
West	4.5 (5.7)	0.0 (7.7)	1.7 (4.9)

	Without CCs		
	Age		
Region	<65	65-69	70+
U.S.	0.2 (1.9)	0.0 (3.9)	0.0 (2.5)
Northeast	0.0 (5.7)	0.0 (9.2)	0.0 (6.9)
North Central	0.0 (3.5)	0.0 (7.5)	0.0 (4.8)
South	0.5 (2.7)	0.0 (6.5)	6.5 (3.7)
West	0.0 (5.1)	0.0 (9.2)	0.0 (6.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs		
	Age		
	<65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs		
	Age		
	<65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 19
Nontraumatic Stupor & Coma
DRG(s): 23

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
U.S.	19.3 (2.9)	11.4 (5.2)	22.9 (2.8)
Northeast	31.9 (6.4)	23.0 (14.9)	22.4 (7.4)
North Central	8.0 (5.7)	19.1 (11.1)	14.3 (5.7)
South	18.0 (5.0)	6.0 (9.3)	25.2 (5.1)
West	22.7 (6.2)	7.2 (8.8)	27.2 (4.8)

Region	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	3.6 (3.6)	0.0 (12.1)	8.6 (4.8)
Northeast	12.6 (8.1)	0.0 (16.4)	0.0 (10.7)
North Central	0.6 (7.3)	0.0 (37.8)	0.0 (10.8)
South	0.0 (6.0)	0.0 (26.4)	17.3 (7.5)
West	5.1 (8.6)	0.0 (33.2)	8.0 (10.7)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 20
Seizure and Headache
DRG(s): 24, 25, 26

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+	Region	Without CCs Age <65	65-69	70+
U.S.	1.2 (0.5)	3.1 (1.6)	4.5 (0.9)	U.S.	0.1 (0.3)	0.0 (1.8)	1.1 (1.1)
Northeast	2.0 (1.2)	4.7 (3.6)	5.1 (1.8)	Northeast	0.0 (0.8)	0.0 (4.0)	1.4 (2.5)
North Central	1.1 (0.9)	5.7 (3.0)	3.9 (1.7)	North Central	0.1 (0.6)	0.0 (3.4)	0.6 (2.1)
South	1.0 (0.9)	0.5 (2.7)	5.2 (1.4)	South	0.1 (0.5)	0.0 (2.9)	1.7 (1.7)
West	1.1 (1.4)	2.6 (3.6)	2.6 (2.3)	West	0.2 (0.9)	0.0 (4.8)	0.0 (2.7)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+		Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 21
Traumatic Stupor & Coma, Coma >1 Hour
DRG(s): 27

RISK-ADJUSTED EXPECTED DEATH RATES .

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	26.0 (1.9)	56.9 (8.6)	35.0 (4.1)
Northeast	15.4 (5.0)	52.5 (21.4)	21.7 (8.3)
North Central	21.8 (3.5)	47.6 (12.3)	39.9 (7.4)
South	33.0 (3.3)	80.4 (17.1)	34.0 (7.4)
West	28.0 (3.7)	50.0 (26.7)	48.5 (10.3)

Region	Without CCs Age <65	 65-69	 70+
U.S.	13.4 (1.8)	18.2 (16.1)	49.4 (7.8)
Northeast	10.1 (4.2)	0.0 (37.4)	68.7 (15.7)
North Central	11.6 (3.9)	30.5 (20.9)	14.4 (14.3)
South	15.9 (2.7)	0.0 (34.7)	77.5 (16.5)
West	12.4 (4.2)	- (-)	46.4 (16.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 22
Traumatic Stupor & Coma, Coma <1 Hour
DRG(s): 28, 29, 30

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	1.9 (1.1)	9.6 (4.9)	9.3 (1.9)
Northeast	4.0 (2.7)	9.9 (11.9)	16.6 (3.8)
North Central	2.9 (2.0)	5.0 (8.5)	6.6 (4.0)
South	1.0 (1.7)	14.3 (10.2)	6.7 (3.1)
West	0.4 (2.6)	10.8 (9.3)	7.2 (5.3)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.3 (0.7)	0.0 (5.7)	2.9 (2.4)
Northeast	0.2 (1.9)	0.0 (11.0)	8.0 (5.3)
North Central	0.2 (1.3)	0.0 (10.4)	1.3 (4.4)
South	0.5 (1.2)	0.0 (10.6)	1.9 (3.9)
West	0.0 (1.8)	0.0 (14.3)	1.4 (7.1)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 23
Concussion
DRG(s): 31, 32, 33

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (1.0)	0.0 (4.3)	1.9 (1.9)
Northeast	0.0 (2.0)	0.0 (10.6)	2.6 (3.6)
North Central	0.0 (1.8)	0.0 (7.9)	0.9 (3.7)
South	0.0 (1.9)	0.0 (6.2)	0.9 (3.6)
West	0.0 (2.5)	0.0 (19.0)	4.5 (5.2)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.5)	0.0 (4.0)	0.0 (1.9)
Northeast	0.0 (1.0)	0.0 (8.7)	0.0 (4.1)
North Central	0.0 (1.0)	0.0 (7.7)	0.0 (3.9)
South	0.0 (0.9)	0.0 (7.1)	0.0 (3.1)
West	0.0 (1.3)	0.0 (9.3)	0.0 (5.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 24
Other Disorders of Nervous System
DRG(s): 34, 35

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	9.7 (1.3)	16.7 (3.1)	16.2 (1.6)
Northeast	7.3 (3.3)	10.5 (8.0)	18.5 (3.8)
North Central	11.7 (2.5)	17.1 (6.0)	15.3 (3.0)
South	10.0 (2.2)	18.9 (5.0)	15.9 (2.9)
West	8.5 (3.2)	16.8 (7.0)	15.7 (4.0)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.9 (1.0)	1.2 (4.3)	3.3 (2.1)
Northeast	0.4 (2.5)	0.0 (9.5)	2.8 (4.5)
North Central	0.5 (2.0)	0.0 (8.8)	0.0 (4.1)
South	0.9 (1.5)	0.0 (6.7)	5.9 (3.5)
West	2.2 (2.7)	7.8 (10.8)	3.2 (5.0)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 25
Retinal Procedures
DRG(s): 36

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (1.7)	0.0 (3.5)	1.1 (2.4)
Northeast	0.0 (4.3)	0.0 (5.5)	0.0 (5.2)
North Central	0.0 (3.2)	0.0 (7.1)	0.0 (5.4)
South	0.0 (2.7)	0.0 (7.4)	2.6 (3.8)
West	0.0 (3.8)	0.0 (9.2)	0.0 (5.9)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.9)	0.0 (1.9)	0.0 (1.4)
Northeast	0.0 (2.2)	0.0 (5.0)	0.0 (3.7)
North Central	0.0 (1.7)	0.0 (3.8)	0.0 (3.0)
South	0.0 (1.5)	0.0 (3.0)	0.0 (2.2)
West	0.0 (2.0)	0.0 (4.5)	0.0 (3.4)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 26
Orbital Procedures
DRG(s): 37

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs		
	Age		
	<65	65-69	70+
U.S.	0.0 (3.1)	0.0 (8.6)	0.0 (4.4)
Northeast	0.0 (7.6)	0.0 (15.9)	0.0 (9.9)
North Central	0.0 (5.3)	0.0 (18.8)	0.0 (9.2)
South	0.0 (5.2)	0.0 (14.3)	0.0 (6.7)
West	0.0 (7.5)	0.0 (22.7)	0.0 (11.6)

Region	Without CCs		
	Age		
	<65	65-69	70+
U.S.	0.0 (1.7)	0.0 (6.8)	0.0 (4.1)
Northeast	0.0 (4.1)	0.0 (14.3)	0.0 (10.4)
North Central	0.0 (3.1)	0.0 (17.0)	0.0 (6.5)
South	0.0 (2.7)	0.0 (10.1)	0.0 (6.8)
West	0.0 (4.6)	0.0 (16.9)	0.0 (13.8)

ACTUAL DEATH RATES

PROVIDER

	With CCs		
	Age		
	<65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs		
	Age		
	<65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 27
Primary Iris Procedures
DRG(s): 38

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	0.0 (8.9)	0.0 (11.7)	0.0 (5.5)
Northeast	0.0 (14.2)	0.0 (25.0)	0.0 (12.5)
North Central	0.0 (29.7)	- (-)	0.0 (12.6)
South	0.0 (17.9)	0.0 (13.3)	0.0 (7.5)
West	0.0 (16.8)	- (-)	0.0 (20.6)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (4.7)	0.0 (11.1)	0.0 (5.0)
Northeast	0.0 (10.0)	0.0 (16.7)	0.0 (10.4)
North Central	0.0 (10.2)	0.0 (21.8)	0.0 (8.2)
South	0.0 (6.9)	0.0 (24.4)	0.0 (8.4)
West	0.0 (16.6)	0.0 (37.8)	0.0 (22.8)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 28
Lens Procedures w/ or w/o Vitrectomy
DRG(s): 39

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	0.3 (1.9)	0.4 (2.4)	0.3 (1.1)
Northeast	0.8 (3.0)	0.0 (3.6)	0.2 (1.5)
North Central	0.0 (4.0)	2.6 (6.2)	0.5 (2.6)
South	0.0 (3.3)	0.0 (4.3)	0.4 (2.4)
West	0.0 (7.7)	0.0 (8.6)	0.0 (4.7)

Region	Without CCs Age <65	65-69	70+
U.S.	0.1 (1.3)	0.0 (1.9)	0.0 (0.8)
Northeast	0.0 (2.1)	0.0 (2.7)	0.0 (1.1)
North Central	0.2 (2.8)	0.0 (4.3)	0.0 (1.6)
South	0.0 (2.1)	0.0 (3.8)	0.0 (1.6)
West	1.5 (5.4)	0.0 (9.3)	0.0 (3.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 29
Extraocular Procedures Except Orbit
DRG: 40, 41

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

With CCs

Region	Age <65	Age 65-69	Age 70+
U.S.	0.0 (2.8)	0.0 (6.6)	0.0 (3.6)
Northeast	0.0 (6.0)	0.0 (9.4)	0.0 (6.5)
North Central	0.0 (5.8)	0.0 (16.8)	0.0 (8.6)
South	0.0 (4.2)	0.0 (12.5)	0.0 (5.4)
West	0.0 (7.8)	0.0 (22.6)	0.0 (15.2)

Without CCs

Region	Age <65	Age 65-69	Age 70+
U.S.	0.0 (1.0)	0.0 (4.0)	0.0 (2.3)
Northeast	0.0 (2.0)	0.0 (6.8)	0.0 (4.8)
North Central	0.0 (2.1)	0.0 (8.1)	0.0 (4.3)
South	0.0 (1.6)	0.0 (7.1)	0.0 (3.8)
West	0.0 (3.6)	0.0 (13.7)	0.0 (7.8)

ACTUAL DEATH RATES

PROVIDER

With CCs

	Age <65	Age 65-69	Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

Without CCs

	Age <65	Age 65-69	Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 30
Intraocular Procedures Except Retina, Iris & Lens
DRG(s): 42

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (2.2)	0.0 (4.3)	0.4 (2.2)
Northeast	0.0 (5.5)	0.0 (13.2)	1.7 (4.9)
North Central	0.0 (4.0)	0.0 (6.8)	0.0 (3.7)
South	0.0 (3.4)	0.0 (8.1)	0.0 (4.0)
West	0.0 (6.1)	0.0 (9.5)	0.0 (6.5)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.1)	0.0 (2.3)	0.0 (1.1)
Northeast	0.0 (2.8)	0.0 (5.8)	0.0 (3.3)
North Central	0.0 (2.0)	0.0 (3.5)	0.0 (1.7)
South	0.0 (1.8)	0.0 (4.4)	0.0 (2.1)
West	0.0 (2.8)	0.0 (6.0)	0.0 (3.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 31
Hyphema
DRG(s): 43

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (5.7)	- (-)	- (-)
Northeast	0.0 (9.8)	- (-)	- (-)
North Central	0.0 (9.2)	- (-)	- (-)
South	0.0 (12.7)	- (-)	- (-)
West	0.0 (20.8)	- (-)	- (-)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.8)	0.0 (18.8)	0.0 (12.3)
Northeast	0.0 (4.1)	- (-)	0.0 (37.8)
North Central	0.0 (3.1)	- (-)	0.0 (27.4)
South	0.0 (3.2)	0.0 (18.8)	0.0 (19.0)
West	0.0 (4.4)	- (-)	0.0 (23.1)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 32
Acute Major Eye Infections
DRG(s): 44

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (3.3)	0.0 (9.4)	4.9 (5.9)
Northeast	0.0 (8.7)	0.0 (34.1)	13.2 (15.1)
North Central	0.0 (6.5)	0.0 (17.1)	10.0 (11.1)
South	0.0 (4.9)	0.0 (15.3)	0.0 (9.0)
West	0.0 (8.5)	0.0 (19.3)	0.0 (16.0)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.5)	0.0 (7.7)	0.0 (4.2)
Northeast	0.0 (3.2)	0.0 (14.6)	0.0 (17.7)
North Central	0.0 (2.8)	0.0 (14.8)	0.0 (7.1)
South	0.0 (2.4)	0.0 (14.0)	0.0 (6.8)
West	0.0 (3.4)	0.0 (19.6)	0.0 (9.4)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 33
Neurological Eye Disorders
DRG(s): 45

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	0.0 (3.3)	0.0 (6.5)	2.2 (4.0)
Northeast	0.0 (9.0)	0.0 (13.3)	0.0 (10.0)
North Central	0.0 (5.5)	0.0 (10.7)	0.0 (7.4)
South	0.0 (5.3)	0.0 (12.1)	4.5 (5.7)
West	0.0 (9.5)	0.0 (19.7)	0.0 (16.9)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (2.4)	0.0 (5.5)	0.0 (3.8)
Northeast	0.0 (6.7)	0.0 (13.7)	0.0 (7.8)
North Central	0.0 (4.0)	0.0 (9.6)	0.0 (8.3)
South	0.0 (3.7)	0.0 (8.4)	0.0 (5.6)
West	0.0 (6.6)	0.0 (22.1)	0.0 (11.4)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 34
Other Disorders of Eye
DRG(s): 46, 47, 48

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
U.S.	1.1 (2.1)	0.0 (4.8)	1.2 (2.3)
Northeast	1.8 (5.1)	0.0 (9.0)	1.4 (4.5)
North Central	0.8 (3.4)	0.0 (9.6)	0.0 (4.8)
South	1.3 (3.6)	0.0 (8.5)	2.3 (4.1)
West	0.0 (6.0)	0.0 (12.7)	0.0 (5.8)

Region	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	0.0 (1.3)	0.0 (4.5)	0.0 (2.9)
Northeast	0.0 (3.4)	0.0 (11.0)	0.0 (5.7)
North Central	0.0 (2.6)	0.0 (8.2)	0.0 (5.0)
South	0.0 (1.9)	0.0 (7.2)	0.0 (5.2)
West	0.0 (3.8)	0.0 (13.2)	0.0 (9.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 35
Major Head & Neck Procedures
DRG(s): 49

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

With CCs

Region	Age <65	Age 65-69	Age 70+
U.S.	3.1 (2.3)	1.6 (3.5)	4.3 (3.0)
Northeast	0.0 (5.0)	0.0 (7.7)	12.2 (7.0)
North Central	4.2 (4.5)	2.9 (6.6)	8.6 (6.3)
South	3.1 (3.6)	0.2 (6.7)	0.2 (4.2)
West	5.3 (5.6)	2.4 (6.7)	0.0 (9.9)

Without CCs

Region	Age <65	Age 65-69	Age 70+
U.S.	0.0 (2.4)	0.0 (5.2)	0.0 (4.6)
Northeast	0.0 (5.5)	0.0 (12.1)	0.0 (9.8)
North Central	0.0 (5.0)	0.0 (13.8)	0.0 (11.0)
South	0.0 (3.8)	0.0 (7.2)	0.0 (7.0)
West	0.0 (6.2)	0.0 (13.2)	0.0 (11.0)

ACTUAL DEATH RATES

PROVIDER

With CCs

	Age <65	Age 65-69	Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

Without CCs

	Age <65	Age 65-69	Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 36
Sialoadenectomy
DRG(s): 50

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (3.9)	0.0 (7.0)	1.7 (4.1)
Northeast	0.0 (8.8)	0.0 (21.8)	0.0 (9.3)
North Central	0.0 (7.5)	0.0 (13.0)	0.0 (7.9)
South	0.0 (6.3)	0.0 (11.2)	4.5 (6.8)
West	0.0 (9.9)	0.0 (14.8)	0.0 (10.2)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.2)	0.0 (3.4)	0.0 (2.7)
Northeast	0.0 (2.7)	0.0 (8.4)	0.0 (6.2)
North Central	0.0 (2.4)	0.0 (7.5)	0.0 (4.8)
South	0.0 (2.1)	0.0 (5.1)	0.0 (4.8)
West	0.0 (2.9)	0.0 (7.4)	0.0 (5.9)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 37
Salivary Gland Procedures Except Sialoadenectomy
DRG(s): 51

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

With CCs

Region	Age <65	Age 65-69	Age 70+
U.S.	0.0 (10.3)	0.0 (25.7)	0.0 (9.7)
Northeast	0.0 (27.0)	0.0 (34.5)	0.0 (23.1)
North Central	0.0 (19.0)	- (-)	0.0 (23.1)
South	0.0 (14.6)	0.0 (38.6)	0.0 (16.0)
West	0.0 (38.6)	- (-)	0.0 (18.4)

Without CCs

Region	Age <65	Age 65-69	Age 70+
U.S.	0.0 (3.0)	0.0 (7.8)	0.0 (7.3)
Northeast	0.0 (6.7)	0.0 (15.6)	0.0 (19.7)
North Central	0.0 (6.6)	0.0 (22.0)	0.0 (15.8)
South	0.0 (4.8)	0.0 (14.3)	0.0 (10.1)
West	0.0 (6.8)	0.0 (13.8)	0.0 (21.0)

ACTUAL DEATH RATES

PROVIDER

With CCs

	Age <65	Age 65-69	Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

Without CCs

	Age <65	Age 65-69	Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 38
Cleft Lip & Palate Repair
DRG(s): 52

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (6.6)	0.0 (31.7)	0.0 (37.8)
Northeast	0.0 (21.5)	- (-)	- (-)
North Central	0.0 (13.0)	- (-)	- (-)
South	0.0 (9.8)	0.0 (31.7)	- (-)
West	0.0 (14.7)	- (-)	0.0 (37.8)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.6)	0.0 (15.4)	0.0 (38.6)
Northeast	0.0 (4.1)	- (-)	- (-)
North Central	0.0 (2.9)	0.0 (18.9)	- (-)
South	0.0 (2.9)	0.0 (36.2)	- (-)
West	0.0 (3.4)	0.0 (38.6)	0.0 (38.6)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 39
Sinus & Mastoid Procedures
DRG(s): 53, 54

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	0.6 (2.1)	1.6 (4.4)	1.0 (3.4)
Northeast	0.0 (4.9)	0.0 (10.1)	5.0 (7.7)
North Central	0.0 (4.5)	0.0 (8.9)	0.0 (6.5)
South	1.5 (3.4)	0.0 (7.4)	0.0 (5.6)
West	0.0 (4.3)	8.3 (10.0)	0.0 (8.7)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (0.6)	0.0 (2.3)	0.0 (2.1)
Northeast	0.0 (1.3)	0.0 (6.6)	0.0 (4.6)
North Central	0.0 (1.1)	0.0 (4.4)	0.0 (4.4)
South	0.0 (1.0)	0.0 (3.7)	0.0 (3.5)
West	0.0 (1.5)	0.0 (5.2)	0.0 (5.1)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 40
Miscellaneous Ear, Nose, & Throat Procedures
DRG(s): 55

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.6 (1.8)	0.0 (4.8)	1.9 (3.6)
Northeast	0.0 (4.0)	0.0 (11.1)	0.0 (8.0)
North Central	0.0 (3.3)	0.0 (7.7)	5.0 (5.8)
South	1.5 (2.9)	0.0 (8.3)	0.0 (7.1)
West	0.3 (5.4)	0.0 (14.5)	0.0 (9.3)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.4)	0.0 (2.1)	0.0 (2.1)
Northeast	0.0 (0.9)	0.0 (5.2)	0.0 (4.5)
North Central	0.0 (0.8)	0.0 (3.5)	0.0 (4.0)
South	0.0 (0.7)	0.0 (3.7)	0.0 (3.7)
West	0.0 (1.2)	0.0 (6.2)	0.0 (5.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 41
Rhinoplasty
DRG(s): 56

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.9 (3.5)	0.0 (14.7)	0.0 (8.1)
Northeast	0.0 (6.8)	0.0 (37.8)	0.0 (20.7)
North Central	4.4 (8.0)	0.0 (34.9)	0.0 (12.8)
South	0.0 (6.2)	0.0 (20.2)	0.0 (13.3)
West	0.0 (7.4)	0.0 (38.5)	0.0 (30.2)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.7)	0.0 (4.9)	0.0 (4.7)
Northeast	0.0 (1.1)	0.0 (10.8)	0.0 (9.9)
North Central	0.2 (1.6)	0.0 (11.6)	0.0 (9.4)
South	0.0 (1.4)	0.0 (7.2)	0.0 (7.3)
West	0.0 (2.4)	0.0 (12.8)	0.0 (15.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 42
T&A Procedures Except Tonsillectomy &/or Adenoidectomy
DRG(s): 57, 58

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	1.9 (2.3)	0.0 (13.9)	0.0 (11.1)
Northeast	0.0 (5.1)	0.0 (26.7)	0.0 (29.8)
North Central	1.5 (4.6)	0.0 (37.8)	0.0 (15.3)
South	4.1 (3.8)	0.0 (25.5)	0.0 (20.0)
West	0.0 (6.2)	0.0 (25.5)	- (-)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (0.6)	0.0 (9.7)	0.0 (9.1)
Northeast	0.0 (1.5)	0.0 (37.4)	0.0 (14.7)
North Central	0.0 (1.3)	0.0 (19.1)	0.0 (21.7)
South	0.0 (1.0)	0.0 (14.1)	0.0 (13.7)
West	0.0 (2.1)	0.0 (21.8)	- (-)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 43
Tonsillectomy &/or Adenoidectomy Procedures
DRG(s): 59, 60

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (2.1)	0.0 (19.6)	0.0 (26.9)
Northeast	0.0 (4.7)	0.0 (28.9)	– (–)
North Central	0.0 (4.4)	0.0 (37.8)	0.0 (27.1)
South	0.0 (3.4)	– (–)	– (–)
West	0.0 (4.8)	0.0 (43.5)	– (–)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.3)	0.0 (13.3)	0.0 (8.7)
Northeast	0.0 (0.8)	0.0 (37.8)	0.0 (28.1)
North Central	0.0 (0.6)	0.0 (37.8)	0.0 (16.9)
South	0.0 (0.5)	0.0 (15.4)	0.0 (11.3)
West	0.0 (1.0)	– (–)	0.0 (37.8)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 44
Myringotomy, w/ Tube Insertion
DRG(s): 61, 62

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+	Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (5.9)	0.0 (24.4)	0.0 (13.8)	U.S.	0.0 (2.5)	0.0 (37.8)	0.0 (15.9)
Northeast	0.0 (27.9)	– (–)	0.0 (37.8)	Northeast	0.0 (6.8)	– (–)	0.0 (37.8)
North Central	0.0 (13.7)	– (–)	– (–)	North Central	0.0 (6.1)	0.0 (37.8)	0.0 (32.2)
South	0.0 (7.5)	0.0 (24.4)	0.0 (15.8)	South	0.0 (3.0)	– (–)	0.0 (26.0)
West	0.0 (16.0)	– (–)	0.0 (41.3)	West	0.0 (10.8)	– (–)	0.0 (35.0)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+		Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 45
Other Ear, Nose, & Throat O.R. Procedures
DRG(s): 63

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	2.6 (2.4)	5.0 (6.0)	2.4 (3.6)
Northeast	5.9 (5.0)	11.5 (9.5)	8.0 (9.8)
North Central	3.2 (4.7)	0.0 (12.0)	0.0 (7.7)
South	0.0 (4.0)	1.2 (11.3)	2.9 (5.4)
West	3.0 (6.7)	0.0 (24.4)	0.0 (8.1)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.5)	0.0 (5.0)	0.9 (3.5)
Northeast	0.0 (3.4)	0.0 (11.7)	0.0 (9.6)
North Central	0.0 (3.3)	0.0 (12.0)	2.6 (6.1)
South	0.0 (2.2)	0.0 (6.7)	0.0 (5.4)
West	0.0 (3.8)	0.0 (16.9)	0.0 (10.0)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 46
Ear, Nose, & Throat Malignancy
DRG(s): 64

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	21.3 (2.4)	30.4 (4.5)	27.7 (2.7)
Northeast	19.3 (5.3)	16.3 (9.9)	31.1 (5.5)
North Central	25.4 (4.3)	22.9 (9.0)	29.1 (5.8)
South	17.1 (3.9)	40.4 (7.4)	25.0 (4.2)
West	26.6 (6.8)	37.3 (11.2)	27.4 (7.1)

Region	Without CCs Age <65	 65-69	 70+
U.S.	7.7 (2.8)	7.1 (7.1)	9.3 (4.0)
Northeast	5.0 (5.3)	0.0 (13.6)	5.8 (9.1)
North Central	12.1 (5.8)	14.8 (10.3)	0.0 (10.2)
South	6.2 (4.5)	0.0 (15.3)	11.6 (5.8)
West	11.1 (8.9)	0.0 (38.5)	14.3 (9.0)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 47
Dysequilibrium
DRG(s): 65

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (1.4)	0.0 (2.4)	0.1 (1.3)
Northeast	0.0 (3.9)	0.0 (5.9)	0.7 (3.2)
North Central	0.0 (2.5)	0.0 (4.8)	0.0 (2.4)
South	0.0 (2.2)	0.0 (3.7)	0.0 (2.0)
West	0.0 (3.5)	0.0 (6.0)	0.0 (3.1)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.9	0.0 (1.9)	0.0 (1.2)
Northeast	0.0 (2.5)	0.0 (4.3)	0.0 (2.9)
North Central	0.0 (1.6)	0.0 (3.7)	0.0 (2.4)
South	0.0 (1.4)	0.0 (3.2)	0.0 (1.8)
West	0.0 (2.4)	0.0 (4.8)	0.0 (3.0)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 48
Epistaxis
DRG(s): 66

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.4 (2.4)	6.6 (4.5)	1.3 (2.2)
Northeast	1.5 (4.6)	13.4 (10.1)	0.0 (4.4)
North Central	0.0 (4.7)	0.0 (7.6)	0.0 (4.1)
South	0.0 (4.1)	15.0 (8.8)	1.2 (4.1)
West	0.0 (6.6)	0.0 (10.4)	5.8 (5.3)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.6)	0.0 (3.6)	0.0 (2.4)
Northeast	0.0 (3.6)	0.0 (8.7)	0.0 (5.5)
North Central	0.0 (3.0)	0.0 (6.1)	0.0 (4.5)
South	0.0 (2.7)	0.0 (6.1)	0.0 (4.2)
West	0.0 (3.9)	0.0 (9.4)	0.0 (6.0)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 49
Epiglottitis
DRG(s): 67

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+	Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (5.4)	0.0 (16.3)	0.0 (12.5)	U.S.	0.0 (2.8)	0.0 (15.1)	0.0 (13.2)
Northeast	0.0 (12.4)	- (-)	0.0 (17.3)	Northeast	0.0 (5.8)	0.0 (20.9)	0.0 (19.4)
North Central	0.0 (10.8)	0.0 (26.2)	0.0 (21.0)	North Central	0.0 (6.0)	0.0 (37.8)	0.0 (26.7)
South	0.0 (8.8)	0.0 (27.6)	0.0 (35.3)	South	0.0 (4.7)	0.0 (37.8)	- (-)
West	0.0 (12.2)	0.0 (37.8)	- (-)	West	0.0 (6.0)	0.0 (37.8	0.0 (26.7)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+		Without CCs Age <65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷	No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 50
Otitis Media & URI
DRG(s): 68, 69, 70

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.3 (0.6)	0.7 (2.3)	2.3 (1.2)
Northeast	0.0 (1.6)	0.0 (5.3)	3.1 (3.0)
North Central	0.4 (1.1)	2.9 (4.8)	2.1 (2.5)
South	0.3 (0.8)	0.0 (3.4)	2.6 (1.7)
West	0.2 (1.6)	0.5 (6.1)	0.7 (3.1)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.4)	0.0 (3.1)	0.0 (1.8)
Northeast	0.0 (1.2)	0.0 3.6)	0.0 (4.8)
North Central	0.0 (0.9)	0.0 (7.7)	0.0 (3.4)
South	0.0 (0.6)	0.0 (4.1)	0.0 (2.4)
West	0.0 (1.4)	0.0 (8.2)	0.0 (6.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 51
Laryngotracheitis
DRG(s): 71

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
U.S.	0.0 (2.8)	0.0 (22.0)	0.0 (27.0)
Northeast	0.0 (8.2)	– (–)	0.0 (37.8)
North Central	0.0 (4.9)	0.0 (38.6)	0.0 (38.6)
South	0.0 (5.2)	0.0 (26.7)	– (–)
West	0.0 (5.7)	– (–)	– (–)

Region	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	0.0 (1.0)	– (–)	0.0 (18.5)
Northeast	0.0 (2.4)	– (–)	0.0 (21.2)
North Central	0.0 (1.9)	– (–)	0.0 (38.2)
South	0.0 (1.9)	– (–)	– (–)
West	0.0 (2.3)	– (–)	– (–)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 52
Nasal Trauma & Deformity
DRG(s): 72

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (3.5)	0.0 (18.2)	5.2 (7.2)
Northeast	0.0 (7.6)	0.0 (28.2)	0.0 (14.1)
North Central	0.0 (6.7)	0.0 (27.0)	0.0 (15.3)
South	0.0 (5.8)	- (-)	15.0 (12.1)
West	0.0 (9.4)	- (-)	0.0 (17.0)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (2.5)	0.0 (22.1)	0.0 (7.4)
Northeast	0.0 (5.5)	0.0 (38.5)	0.0 (13.5)
North Central	0.0 (4.7)	0.0 (38.6)	0.0 (17.1)
South	0.0 (4.0)	- (-)	0.0 (11.9)
West	0.0 (6.4)	0.0 (37.8)	0.0 (21.1)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 53
Other Ear, Nose, & Throat Dxs
DRG(s): 73, 74

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	1.9 (1.9)	3.1 (4.4)	8.6 (2.6)
Northeast	1.7 (4.9)	7.4 (9.1)	15.4 (5.6)
North Central	2.2 (3.6)	0.0 (8.3)	6.1 (5.0)
South	2.0 (2.8)	3.5 (7.2)	7.1 (4.4)
West	1.4 (4.9)	0.0 (14.2)	6.8 (6.5)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (1.0)	0.0 (4.2)	0.0 (2.8)
Northeast	0.0 (2.7)	0.0 (9.9)	0.0 (6.3)
North Central	0.0 (2.0)	0.0 (8.0)	0.0 (5.6)
South	0.0 (1.5)	0.0 (6.7)	0.0 (4.4)
West	0.0 (2.6)	0.0 (11.3)	0.0 (6.8)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 54
Major Chest Procedures
DRG(s): 75

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+	Region	Without CCs Age <65	 65-69	 70+
U.S.	7.5 (0.8)	9.1 (1.4)	13.7 (1.1)	U.S.	0.8 (1.1)	1.8 (2.6)	1.3 (2.2)
Northeast	7.3 (1.7)	8.0 (2.8)	14.4 (2.3)	Northeast	0.0 (2.4)	0.0 (6.2)	0.0 (4.8)
North Central	8.9 (1.7)	12.8 (2.8)	13.9 (2.4)	North Central	0.5 (2.3)	2.1 (5.5)	0.0 (5.0)
South	7.5 (1.4)	9.2 (2.5)	13.9 (1.9)	South	0.1 (1.8)	3.4 (4.2)	0.8 (3.5)
West	5.8 (1.9)	5.3 (3.3)	12.5 (2.7)	West	3.9 (2.7)	0.0 (5.7)	4.5 (4.8)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+		Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷	No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 55
Other Respiratory System O.R. Procedures
DRG(s): 76, 77

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	9.9 (1.2)	15.9 (2.2)	24.9 (1.5)
Northeast	10.8 (2.6)	15.2 (4.1)	27.6 (2.9)
North Central	8.3 (2.4)	15.7 (4.3)	19.8 (3.1)
South	9.3 (2.0)	15.2 (4.0)	26.8 (2.5)
West	12.7 (3.1)	18.6 (5.2)	23.7 (3.7)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.4 (1.7)	2.3 (4.7)	4.0 (3.3)
Northeast	0.9 (3.7)	0.0 (8.3)	7.7 (6.2)
North Central	0.0 (3.6)	0.0 (9.1)	0.0 (9.3)
South	0.5 (2.6)	7.0 (8.3)	2.3 (4.9)
West	0.0 (4.9)	0.0 (15.3)	6.2 (9.4)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 56
Pulmonary Embolism
DRG(s): 78

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	6.8 (1.2)	15.2 (2.0)	16.6 (1.1)
Northeast	4.6 (2.5)	16.9 (4.8)	13.4 (2.3)
North Central	7.7 (2.3)	9.6 (3.8)	17.7 (2.0)
South	7.8 (1.9)	20.9 (3.3)	17.7 (1.8)
West	6.4 (3.0)	10.0 (4.7)	16.1 (2.7)

Region	Without CCs Age <65	 65-69	 70+
U.S.	1.1 (1.4)	6.5 (3.3)	7.0 (2.0)
Northeast	0.0 (2.9)	4.4 (7.6)	5.1 (4.5)
North Central	1.1 (2.8)	7.0 (6.3)	13.4 (3.8)
South	2.6 (2.5)	9.8 (5.3)	5.0 (3.3)
West	0.0 (3.3)	0.0 (8.4)	2.4 (5.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 57
Respiratory Infections & Inflammations
DRG: 79, 80, 81

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	12.8 (0.8)	17.6 (1.3)	25.2 (0.5)
Northeast	15.3 (1.5)	16.9 (2.8)	28.0 (1.2)
North Central	13.7 (1.6)	20.8 (2.7)	22.9 (1.1)
South	9.8 (1.3)	15.6 (2.1)	25.2 (0.8)
West	14.8 (1.9)	18.6 (3.1)	25.3 (1.2)

Region	Without CCs Age <65	 65-69	 70+
U.S.	2.2 (1.2)	2.1 (3.1)	12.0 (1.3)
Northeast	4.3 (2.8)	0.0 (9.6)	11.5 (3.2)
North Central	1.0 (2.5)	3.2 (6.8)	12.2 (2.7)
South	1.4 (1.9)	1.6 (4.4)	10.7 (1.9)
West	3.3 (3.4)	3.5 (7.1)	16.6 (3.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 58
Respiratory Neoplasms
DRG(s): 82

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	29.8 (0.6)	29.2 (0.9)	31.5 (0.6)
Northeast	30.7 (1.3)	26.4 (1.9)	32.6 (1.3)
North Central	29.9 (1.1)	32.5 (1.9)	34.3 (1.2)
South	29.4 (1.0)	28.9 (1.6)	29.3 (1.0)
West	29.1 (1.7)	28.8 (2.4)	29.5 (1.6)

Region	Without CCs Age <65	 65-69	 70+
U.S.	16.3 (1.2)	17.3 (2.2)	19.7 (1.5)
Northeast	12.7 (2.8)	13.9 (4.4)	16.8 (3.1)
North Central	13.6 (2.4)	13.5 (4.3)	17.5 (2.8)
South	17.4 (1.9)	19.6 (3.5)	25.1 (2.4)
West	24.1 (3.6)	25.3 (6.6)	13.8 (4.0)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 59
Major Chest Trauma
DRG(s): 83, 84

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (1.6)	1.8 (3.4)	3.4 (1.8)
Northeast	0.0 (3.7)	0.0 (7.3)	2.7 (3.5)
North Central	0.0 (3.0)	6.9 (6.7)	3.6 (3.3)
South	0.0 (2.6)	0.0 (5.5)	2.9 (3.2)
West	0.0 (3.5)	0.0 (9.4)	5.0 (4.4)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.8)	0.0 (5.1)	0.4 (2.5)
Northeast	0.0 (3.6)	0.0 (11.4)	0.0 (5.1)
North Central	0.0 (3.8)	0.0 (8.4)	0.0 (4.7)
South	0.0 (2.9)	0.0 (9.7)	1.4 (4.5)
West	0.0 (4.4)	0.0 (13.6)	0.0 (6.1)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 60
Pleural Effusion
DRG(s): 85, 86

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	6.5 (1.9)	6.1 (2.9)	11.0 (1.4)
Northeast	3.6 (4.0)	8.6 (5.2)	12.4 (2.7)
North Central	11.5 (3.8)	4.8 (5.9)	10.1 (2.7)
South	6.0 (3.0)	8.1 (5.6)	12.2 (2.6)
West	3.7 (5.2)	0.0 (7.2)	7.9 (3.6)

Region	Without CCs Age <65	 65-69	 70+
U.S.	1.0 (2.6)	0.0 (5.7)	2.0 (3.5)
Northeast	0.0 (5.1)	0.0 (17.0)	0.0 (7.5)
North Central	1.8 (5.0)	0.0 (15.3)	8.8 (7.4)
South	1.3 (4.2)	0.0 (8.5)	0.0 (6.0)
West	0.0 (10.4)	0.0 (10.3)	0.0 (8.0)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 61
Pulmonary Edema & Respiratory Failure
DRG(s): 87

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	17.6 (0.9)	21.0 (1.4)	26.3 (0.7)
Northeast	13.8 (2.1)	20.9 (2.8)	28.9 (1.4)
North Central	19.6 (1.8)	20.7 (2.7)	26.8 (1.4)
South	17.9 (1.6)	21.8 (2.3)	25.3 (1.2)
West	18.4 (2.1)	20.1 (3.2)	23.8 (1.8)

Region	Without CCs Age <65	 65-69	 70+
U.S.	4.7 (2.2)	8.2 (4.6)	13.5 (2.1)
Northeast	5.0 (4.9)	9.7 (11.8)	9.4 (4.6)
North Central	5.3 (4.3)	7.9 (9.3)	18.5 (4.4)
South	4.2 (3.5)	7.3 (7.2)	16.1 (3.6)
West	4.4 (5.6)	9.3 (11.1)	6.3 (5.1)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 62
Chronic Obstructive Pulmonary Disease
DRG(s): 88

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+	Region	Without CCs Age <65	65-69	70+
U.S.	5.9 (0.7)	8.9 (0.9)	11.7 (0.5)	U.S.	0.5 (0.7)	1.1 (1.1)	2.3 (0.7)
Northeast	5.7 (1.5)	11.2 (1.9)	10.8 (1.0)	Northeast	0.3 (1.7)	1.1 (2.5)	1.4 (1.5)
North Central	4.8 (1.4)	8.5 (1.8)	10.6 (1.1)	North Central	0.2 (1.5)	1.9 (2.3)	2.6 (1.6)
South	6.8 (1.1)	8.5 (1.5)	13.7 (0.9)	South	0.8 (1.1)	0.5 (1.8)	2.9 (1.2)
West	5.5 (1.8)	7.3 (2.3)	10.8 (1.3)	West	0.0 (1.9)	1.3 (2.7)	1.8 (1.9)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+		Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 63
Simple Pneumonia & Pleurisy
DRG(s): 89, 90, 91

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+	Region	Without CCs Age <65	65-69	70+
U.S.	4.4 (0.4)	8.0 (0.7)	15.0 (0.3)	U.S.	0.1 (0.3)	1.2 (1.2)	4.0 (0.6)
Northeast	4.5 (0.9)	7.6 (1.6)	17.4 (0.6)	Northeast	0.1 (0.8)	0.0 (3.1)	4.5 (1.4)
North Central	4.1 (0.7)	8.3 (1.3)	14.8 (0.5)	North Central	0.0 (0.5)	1.0 (2.3)	4.6 (1.1)
South	4.4 (0.6)	8.7 (1.0)	14.2 (0.5)	South	0.3 (0.5)	0.5 (1.9)	3.5 (0.9)
West	4.6 (0.9)	5.9 (1.7)	13.9 (0.7)	West	0.2 (0.9)	5.1 (3.5)	3.8 (1.6)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+		Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 64
Interstitial Lung Disease
DRG(s): 92, 93

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+	Region	Without CCs Age <65	 65-69	 70+
U.S.	6.9 (1.5)	13.0 (3.1)	15.9 (1.6)	U.S.	0.0 (2.0)	1.5 (4.0)	2.4 (2.8)
Northeast	8.2 (2.8)	15.8 (6.6)	22.2 (3.3)	Northeast	0.0 (4.7)	0.0 (6.8)	0.0 (5.9)
North Central	8.3 (3.2)	7.0 (5.8)	9.7 (3.4)	North Central	0.0 (3.8)	0.0 (9.7)	2.6 (6.1)
South	5.0 (2.4)	13.6 (5.0)	17.1 (2.6)	South	0.0 (3.0)	4.2 (6.6)	3.8 (4.0)
West	7.7 (4.8)	20.7 (9.3)	12.4 (3.9)	West	0.0 (5.9)	0.0 (12.1)	0.0 (10.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+		Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷	No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 65
Pneumothorax
DRG(s): 94, 95

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+	Region	Without CCs Age <65	 65-69	 70+
U.S.	2.3 (1.4)	4.7 (3.4)	7.6 (1.9)	U.S.	0.0 (1.0)	0.0 (6.0)	0.0 (4.1)
Northeast	0.9 (3.2)	0.0 (10.1)	4.9 (4.5)	Northeast	0.0 (1.9)	0.0 (10.8)	0.0 (12.1)
North Central	1.0 (2.7)	4.7 (6.8)	14.3 (3.6)	North Central	0.0 (1.9)	0.0 (12.2)	0.0 (7.4)
South	3.4 (2.3)	5.4 (4.8)	4.9 (3.3)	South	0.0 (1.7)	0.0 (10.9)	0.0 (7.0)
West	3.4 (3.1)	6.6 (9.7)	4.9 (4.1)	West	0.0 (2.3)	0.0 (16.8)	0.0 (8.8)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+		Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷	No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 66
Bronchitis & Asthma
DRG(s): 96, 97, 98

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.6 (0.4)	1.5 (0.7)	2.4 (0.4)
Northeast	0.9 (0.9)	1.9 (1.7)	3.4 (1.0)
North Central	0.7 (0.7)	1.1 (1.3)	1.9 (0.8)
South	0.5 (0.6)	1.8 (1.1)	2.1 (0.7)
West	0.7 (0.9)	1.1 (1.7)	2.9 (1.0)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.2)	0.2 (1.2)	0.4 (0.8)
Northeast	0.0 (0.5)	0.0 (2.6)	0.3 (1.8)
North Central	0.0 (0.5)	0.4 (2.5)	0.4 (1.6)
South	0.0 (0.4)	0.0 (1.8)	0.5 (1.2)
West	0.0 (0.7)	0.7 (3.1)	0.1 (1.9)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 67
Respiratory Signs & Symptoms
DRG(s): 99, 100

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	1.7 (0.9)	3.2 (1.9)	4.9 (1.1)
Northeast	3.5 (2.3)	0.7 (4.8)	3.6 (2.9)
North Central	0.9 (1.7)	2.4 (4.1)	6.8 (2.3)
South	1.7 (1.4)	4.9 (3.0)	4.6 (1.7)
West	1.6 (2.4)	2.7 (4.4)	4.3 (2.7)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.2 (0.6)	1.1 (2.3)	1.9 (1.6)
Northeast	0.0 (1.8)	0.0 (6.1)	0.0 (4.0)
North Central	0.1 (1.2)	0.0 (4.8)	1.3 (3.0)
South	0.2 (1.0)	2.7 (3.6)	1.9 (2.5)
West	0.5 (1.8)	0.0 (5.3)	4.0 (3.6)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 68
Other Respiratory System Dxs
DRG(s): 101, 102

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	2.2 (1.0)	5.2 (2.2)	5.9 (1.2)
Northeast	3.6 (2.5)	3.4 (5.0)	7.8 (2.7)
North Central	3.2 (2.1)	3.5 (4.6)	6.9 (2.2)
South	1.6 (1.6)	7.2 (3.3)	5.9 (2.0)
West	1.1 (2.2)	4.6 (5.3)	2.7 (2.6)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.4 (1.0)	0.0 (3.5)	1.0 (1.9)
Northeast	0.5 (2.6)	0.0 (8.4)	0.1 (4.5)
North Central	0.3 (2.0)	0.0 (6.5)	2.2 (4.1)
South	0.5 (1.5)	0.0 (5.9)	1.2 (3.0)
West	0.5 (2.6)	0.0 (8.5)	0.0 (5.1)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 69
Heart Transplant
DRG(s): 103

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	15.2 (5.9)	100.0 (30.9)	– (–)
Northeast	0.0 (18.3)	– (–)	– (–)
North Central	53.7 (14.4)	– (–)	– (–)
South	5.8 (7.7)	100.0 (30.9)	– (–)
West	20.3 (16.3)	– (–)	– (–)

Region	Without CCs Age <65	 65-69	 70+
U.S.	5.1 (8.6)	– (–)	– (–)
Northeast	– (–)	– (–)	– (–)
North Central	33.3 (21.8)	– (–)	– (–)
South	0.0 (9.7)	– (–)	– (–)
West	0.0 (34.1)	– (–)	– (–)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 70
Cardiac Valve Procedures w/ Pump & w/ Cardiac Cath
DRG(s): 104

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	10.9 (1.8)	12.7 (3.0)	18.8 (2.1)
Northeast	12.8 (4.0)	13.3 (6.6)	21.1 (4.5)
North Central	15.3 (3.3)	17.5 (5.1)	16.4 (4.4)
South	8.7 (3.4)	11.7 (5.6)	20.9 (3.8)
West	6.0 (3.9)	4.7 (7.1)	16.4 (4.3)

Region	Without CCs Age <65	 65-69	 70+
U.S.	1.4 (4.4)	0.0 (10.2)	9.3 (6.4)
Northeast	0.0 (14.3)	0.0 (18.5)	7.1 (11.3)
North Central	0.0 (7.8)	0.0 (25.9)	0.0 (11.1)
South	3.6 (7.1)	0.0 (18.0)	22.5 (11.9)
West	0.0 (9.7)	0.0 (21.8)	9.4 (24.0)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 71
Cardiac Valve Procedures w/ Pump & w/o Cardiac Cath
DRG(s): 105

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	9.2 (1.6)	11.4 (2.9)	14.5 (2.2)
Northeast	12.8 (3.5)	2.3 (6.6)	10.7 (4.9)
North Central	10.0 (3.1)	11.4 (5.6)	19.3 (4.9)
South	4.6 (3.2)	20.9 (5.9)	14.3 (4.6)
West	9.5 (3.0)	9.7 (5.2)	14.1 (3.8)

Region	Without CCs Age <65	 65-69	 70+
U.S.	2.2 (2.6)	1.8 (5.1)	3.5 (5.0)
Northeast	2.2 (5.5)	4.0 (8.7)	8.8 (14.2)
North Central	1.8 (5.0)	1.1 (8.9)	1.6 (7.8)
South	4.2 (4.8)	0.0 (11.3)	0.0 (10.1)
West	0.0 (5.6)	0.0 (14.4)	7.9 (10.6)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 72
Coronary Bypass w/ Cardiac Cath
DRG(s): 106

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	5.8 (0.7)	6.1 (1.2)	14.1 (1.0)
Northeast	4.1 (1.6)	7.6 (2.6)	18.1 (2.2)
North Central	8.5 (1.5)	10.9 (2.3)	15.5 (2.0)
South	5.0 (1.3)	2.6 (2.0)	10.6 (1.8)
West	5.5 (1.7)	4.4 (2.6)	13.5 (2.2)

Region	Without CCs Age <65	 65-69	 70+
U.S.	1.3 (1.1)	2.4 (2.3)	2.8 (2.1)
Northeast	0.8 (2.9)	0.0 (5.5)	5.0 (5.6)
North Central	0.8 (1.8)	5.8 (3.5)	5.4 (3.4)
South	2.4 (2.2)	0.0 (5.1)	0.0 (4.1)
West	1.0 (2.7)	0.0 (5.1)	0.0 (4.6)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 73
Coronary Bypass w/o Cardiac Cath
DRG(s): 107

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	3.9 (0.8)	5.1 (1.4)	8.7 (1.3)
Northeast	4.5 (1.6)	3.5 (2.8)	11.9 (2.5)
North Central	3.9 (1.6)	5.8 (2.7)	8.8 (2.8)
South	3.4 (1.6)	3.1 (2.7)	7.8 (2.6)
West	3.9 (1.7)	7.9 (2.6)	6.4 (2.5)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.5 (1.1)	1.1 (2.3)	2.0 (2.3)
Northeast	0.0 (2.8)	3.6 (5.2)	1.5 (5.0)
North Central	0.5 (1.8)	0.0 (4.0)	2.2 (4.3)
South	0.9 (2.3)	0.0 (4.8)	2.0 (4.4)
West	0.5 (2.6)	1.8 (5.0)	2.1 (5.0)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 74
Other Cardiothoracic or Vascular Procedures w/ Pump
DRG(s): 108

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	14.0 (2.1)	36.5 (7.5)	23.9 (5.5)
Northeast	13.3 (6.9)	58.4 (19.1)	31.7 (15.2)
North Central	10.6 (5.0)	93.2 (17.1)	10.9 (10.5)
South	12.8 (2.8)	13.0 (11.5)	40.4 (10.0)
West	21.4 (4.9)	17.4 (15.8)	15.4 (10.5)

Region	Without CCs Age <65	 65-69	 70+
U.S.	1.1 (2.2)	22.9 (16.6)	18.4 (16.2)
Northeast	6.9 (7.8)	0.0 (26.7)	0.0 (27.0)
North Central	0.8 (5.5)	0.0 (37.8)	0.0 (37.8)
South	0.6 (2.9)	100.0 (34.7)	40.5 (24.1)
West	0.0 (5.5)	0.0 (37.8)	– (–)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 75
Other Cardiothoracic Procedures w/o Pump
DRG(s): 109

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	23.2 (1.4)	37.6 (2.5)	34.0 (1.4)
Northeast	30.2 (3.1)	34.5 (4.4)	36.0 (2.7)
North Central	24.7 (2.6)	50.3 (4.6)	39.7 (2.5)
South	20.7 (2.5)	30.2 (5.1)	31.9 (3.1)
West	17.3 (3.2)	30.5 (6.7)	23.9 (3.2)

Region	Without CCs Age <65	 65-69	 70+
U.S.	4.0 (2.0)	14.1 (5.8)	12.1 (3.3)
Northeast	6.0 (6.9)	0.0 (16.1)	7.7 (6.2)
North Central	8.7 (4.4)	0.0 (16.9)	17.0 (5.7)
South	1.5 (2.9)	25.2 (8.3)	14.4 (7.4)
West	4.7 (4.8)	7.1 (11.0)	7.7 (7.4)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 76
Major Reconstructive Vascular Procedures w/o Pump
DRG(s): 110, 111

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	4.9 (0.9)	8.0 (1.1)	14.4 (0.7)
Northeast	4.3 (1.9)	9.2 (2.2)	16.3 (1.4)
North Central	4.6 (1.7)	3.0 (2.3)	15.6 (1.5)
South	5.9 (1.7)	10.3 (1.9)	11.6 (1.4)
West	4.3 (2.3)	8.3 (2.5)	14.2 (1.7)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.7 (1.1)	1.7 (1.8)	3.7 (1.3)
Northeast	1.1 (2.3)	1.3 (3.5)	4.7 (2.8)
North Central	0.8 (2.1)	2.5 (3.4)	5.4 (2.6)
South	0.3 (1.9)	2.1 (3.0)	1.7 (2.3)
West	0.5 (2.9)	0.0 (4.7)	3.6 (3.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 77
Vascular Procedures Except Major Reconstruction w/o Pump
DRG(s): 112

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	3.6 (0.9)	8.9 (1.5)	12.8 (0.9)
Northeast	4.7 (2.0)	6.5 (3.3)	14.0 (2.0)
North Central	2.5 (1.7)	7.8 (2.7)	11.6 (1.8)
South	3.6 (1.5)	10.8 (2.6)	12.4 (1.7)
West	4.0 (2.1)	10.1 (3.4)	13.7 (2.0)

Region	Without CCs Age <65	65-69	70+
U.S.	0.4 (0.9)	0.7 (2.0)	1.8 (1.5)
Northeast	0.6 (2.3)	0.0 (4.9)	1.0 (3.7)
North Central	0.0 (1.5)	0.6 (2.9)	2.4 (2.4)
South	1.0 (1.8)	1.9 (4.3)	1.3 (3.1)
West	0.0 (2.4)	0.0 (4.7)	1.9 (3.7)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 78
Amputation for Circ System Disorders Except Upper Limb & Toe
DRG(s): 113

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

	With CCs				Without CCs		
	Age				Age		
Region	<65	65-69	70+	Region	<65	65-69	70+
U.S.	5.4 (1.6)	7.8 (2.0)	12.4 (0.9)	U.S.	0.0 (4.8)	4.8 (8.5)	6.0 (3.0)
Northeast	5.8 (3.5)	9.9 (4.3)	15.5 (2.1)	Northeast	0.0 (11.9)	- (-)	0.0 (7.6)
North Central	3.8 (3.3)	5.3 (3.8)	13.0 (1.8)	North Central	0.0 (8.1)	19.5 (17.0)	3.4 (5.4)
South	5.4 (2.6)	10.2 (3.2)	11.4 (1.5)	South	0.0 (7.8)	0.0 (11.0)	11.9 (4.6)
West	7.0 (3.8)	2.2 (5.7)	9.3 (2.8)	West	0.0 (16.4)	0.0 (23.5)	0.0 (8.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs				Without CCs		
	Age				Age		
	<65	65-69	70+		<65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷	No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 79
Upper Limb & Toe Amputation for Circ System Disorders
DRG(s): 114

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+	Region	Without CCs Age <65	65-69	70+
U.S.	2.3 (2.0)	4.5 (3.1)	7.9 (2.1)	U.S.	1.3 (4.3)	0.0 (9.2)	0.0 (4.8)
Northeast	5.8 (3.9)	6.4 (6.2)	8.6 (3.7)	Northeast	0.0 (11.8)	0.0 (21.8)	0.0 (7.5)
North Central	0.0 (4.3)	7.3 (7.0)	3.2 (4.6)	North Central	3.7 (7.3)	0.0 (17.0)	0.0 (8.8)
South	1.4 (3.4)	0.3 (5.1)	11.0 (3.4)	South	0.0 (6.8)	0.0 (13.4)	0.0 (9.6)
West	1.6 (4.9)	7.6 (7.5)	4.6 (5.8)	West	0.0 (11.9)	0.0 (37.8)	0.0 (21.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+		Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 80
Perm Cardiac Pacemaker Implant w/ AMI, Heart Failure or Shock
DRG(s): 115

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+	Region	Without CCs Age <65	65-69	70+
U.S.	8.5 (4.4)	22.0 (4.5)	17.2 (1.8)	U.S.	0.0 (14.4)	0.0 (37.8)	11.1 (6.4)
Northeast	8.4 (11.2)	24.0 (8.7)	17.9 (3.3)	Northeast	0.0 (26.7)	- (-)	0.0 (11.9)
North Central	6.5 (9.1)	19.6 (9.1)	17.1 (3.4)	North Central	0.0 (37.8)	0.0 (37.8)	0.0 (14.4)
South	3.8 (6.7)	26.1 (8.1)	16.9 (3.4)	South	0.0 (19.3)	- (-)	0.0 (10.6)
West	21.7 (10.0)	14.8 (10.8)	16.2 (5.1)	West	- (-)	- (-)	78.8 (17.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+		Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 81
Perm Cardiac Pacemaker Implant w/o AMI, Heart Failure, or Shock
DRG(s): 116

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+	Region	Without CCs Age <65	65-69	70+
U.S.	0.8 (1.8)	1.5 (2.0)	3.5 (0.8)	U.S.	0.0 (2.5)	0.0 (3.3)	0.0 (1.2)
Northeast	0.0 (3.9)	2.4 (4.4)	6.1 (1.6)	Northeast	0.0 (5.6)	0.0 (7.3)	0.0 (2.4)
North Central	0.0 (3.7)	2.5 (4.2)	3.7 (1.5)	North Central	0.0 (5.2)	0.0 (5.4)	0.0 (2.5)
South	1.7 (3.1)	0.8 (3.2)	2.4 (1.3)	South	0.0 (4.4)	0.0 (6.7)	0.0 (2.0)
West	1.4 (4.5)	0.9 (5.2)	2.1 (1.9)	West	0.0 (5.3)	0.0 (7.9)	0.0 (3.1)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+		Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 82
Cardiac Pacemaker Replace & Revis Except Pulse Generator Replacement
DRG(s): 117

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	5.9 (5.3)	0.0 (8.1)	2.4 (2.9)
Northeast	0.0 (19.7)	0.0 (16.6)	4.7 (5.8)
North Central	0.0 (14.4)	0.0 (26.3)	5.3 (6.1)
South	12.8 (7.8)	0.0 (11.6)	0.0 (4.8)
West	0.0 (9.3)	0.0 (19.0)	0.0 (7.3)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (6.1)	0.0 (8.6)	0.0 (4.1)
Northeast	0.0 (9.7)	0.0 (18.3)	0.0 (9.7)
North Central	0.0 (15.1)	0.0 (17.9)	0.0 (9.3)
South	0.0 (10.8)	0.0 (17.1)	0.0 (6.3)
West	0.0 (18.6)	0.0 (16.1)	0.0 (8.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 83
Cardiac Pacemaker Pulse Generator Replacement
DRG(s): 118

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	1.9 (5.2)	2.2 (5.6)	2.0 (2.1)
Northeast	0.0 (12.1)	11.0 (12.5)	0.0 (3.7)
North Central	7.3 (10.2)	0.0 (10.3)	1.7 (4.3)
South	0.0 (10.0)	0.0 (10.6)	3.6 (4.2)
West	0.0 (10.0)	0.0 (11.7)	3.8 (5.1)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (4.1)	0.0 (5.3)	0.0 (2.3)
Northeast	0.0 (9.1)	0.0 (11.8)	0.0 (4.2)
North Central	0.0 (7.9)	0.0 (12.4)	0.0 (4.6)
South	0.0 (6.3)	0.0 (8.3)	0.0 (4.2)
West	0.0 (11.9)	0.0 (11.0)	0.0 (6.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 84
Vein Ligation & Stripping
DRG(s): 119

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.6 (2.6)	0.0 (5.6)	6.9 (4.8)
Northeast	0.0 (5.0)	0.0 (11.8)	8.6 (11.1)
North Central	0.0 (4.9)	0.0 (10.4)	0.0 (8.3)
South	0.0 (5.1)	0.0 (9.3)	6.1 (7.6)
West	3.6 (6.5)	0.0 (17.4)	31.9 (15.8)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.9)	0.0 (3.3)	0.0 (3.4)
Northeast	0.0 (1.7)	0.0 (5.5)	0.0 (5.6)
North Central	0.0 (1.6)	0.0 (7.2)	0.0 (7.6)
South	0.0 (1.9)	0.0 (6.0)	0.0 (7.7)
West	0.0 (2.4)	0.0 (8.8)	0.0 (7.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 85
Other Circulatory System O.R. Procedures
DRG: 120

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	6.3 (1.4)	15.4 (2.3)	19.4 (1.3)
Northeast	5.2 (3.1)	22.0 (4.2)	29.0 (2.3)
North Central	7.8 (2.8)	12.5 (4.6)	15.6 (2.5)
South	3.0 (2.3)	11.2 (4.1)	11.7 (2.4)
West	15.0 (4.0)	15.5 (5.6)	21.0 (4.2)

Region	Without CCs Age <65	 65-69	 70+
U.S.	1.2 (2.0)	0.0 (4.5)	4.5 (2.5)
Northeast	1.9 (4.7)	0.0 (9.4)	0.0 (5.2)
North Central	1.3 (4.3)	0.0 (7.8)	5.3 (4.4)
South	0.6 (2.9)	0.0 (7.4)	5.8 (4.4)
West	2.6 (6.3)	0.0 (21.8)	9.0 (8.4)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 86
Circulatory Disorders w/ AMI*
DRG(s): 121, 122, 123

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	11.3 (0.4)	19.5 (0.6)	27.3 (0.3)
Northeast	10.8 (0.8)	20.4 (1.2)	27.0 (0.6)
North Central	11.9 (0.8)	19.0 (1.3)	28.9 (0.6)
South	11.7 (0.7)	19.4 (1.0)	27.5 (0.5)
West	10.2 (1.0)	19.0 (1.5)	25.0 (0.8)

Region	Without CCs Age <65	 65-69	 70+
U.S.	2.2 (0.5)	4.4 (1.1)	13.2 (0.7)
Northeast	2.3 (1.0)	4.0 (2.0)	7.4 (1.4)
North Central	1.3 (1.0)	4.0 (2.2)	15.8 (1.4)
South	3.2 (0.9)	6.4 (1.8)	17.3 (1.2)
West	1.2 (1.2)	1.9 (2.6)	9.7 (1.8)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

*The CCs for this cluster are not unique, as the full English description suggests (with and without cardiovascular complications). The CCs come from the HCFA defined list.

DRG CLUSTER: 87
Circulatory Disorders, Except AMI, w/ Cardiac Cath & Complex Dxs
DRG(s): 124

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	1.5 (0.7)	2.9 (1.2)	5.7 (1.0)
Northeast	2.0 (1.7)	4.5 (2.9)	7.1 (2.5)
North Central	1.0 (1.2)	1.4 (2.2)	6.5 (1.9)
South	2.1 (1.3)	3.7 (2.1)	5.5 (1.7)
West	0.5 (1.7)	2.5 (2.7)	3.8 (2.1)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.8)	0.0 (1.6)	0.7 (1.6)
Northeast	0.0 (1.7)	0.0 (3.2)	0.0 (3.7)
North Central	0.0 (1.3)	0.0 (2.9)	0.5 (2.7)
South	0.0 (1.7)	0.0 (3.3)	0.6 (2.9)
West	0.0 (1.9)	0.0 (3.8)	1.8 (3.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

7

DRG CLUSTER: 88
Circulatory Disorders Except AMI, w/ Cardiac Cath w/o Complex Dxs
DRG(s): 125

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.2 (0.6)	0.1 (1.1)	0.9 (1.1)
Northeast	0.0 (1.4)	0.0 (2.7)	1.4 (2.7)
North Central	0.1 (1.0)	0.0 (2.0)	0.0 (2.0)
South	0.5 (1.0)	0.3 (1.9)	1.5 (1.9)
West	0.0 (1.5)	0.0 (3.0)	0.9 (2.7)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.4)	0.0 (0.9)	0.0 (1.0)
Northeast	0.0 (0.8)	0.0 (1.9)	0.0 (2.0)
North Central	0.0 (0.6)	0.0 (1.4)	0.0 (1.7)
South	0.0 (0.7)	0.0 (1.6)	0.0 (2.0)
West	0.0 (1.0)	0.0 (2.3)	0.0 (2.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 89
Acute & Subacute Endocarditis
DRG(s): 126

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+	Region	Without CCs Age <65	65-69	70+
U.S.	6.2 (2.3)	23.6 (5.8)	13.0 (3.2)	U.S.	1.5 (4.6)	0.0 (13.4)	0.0 (9.4)
Northeast	4.1 (3.7)	26.0 (9.6)	17.2 (5.5)	Northeast	4.2 (7.7)	0.0 (18.9)	0.0 (17.3)
North Central	6.3 (4.7)	19.9 (10.8)	6.5 (6.9)	North Central	0.0 (13.5)	0.0 (37.8)	0.0 (17.8)
South	12.6 (5.2)	32.4 (13.5)	13.1 (6.3)	South	0.0 (7.4)	0.0 (38.6)	0.0 (17.3)
West	2.8 (5.8)	14.5 (14.4)	12.6 (7.8)	West	0.0 (12.2)	0.0 (27.0)	0.0 (27.0)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+		Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 90
Heart Failure & Shock
DRG(s): 127

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	6.7 (0.5)	8.9 (0.6)	12.4 (0.2)
Northeast	7.3 (1.0)	7.6 (1.2)	13.1 (0.5)
North Central	7.0 (0.9)	8.4 (1.1)	12.2 (0.5)
South	6.6 (0.8)	10.0 (1.0)	12.7 (0.4)
West	5.4 (1.2)	9.2 (1.5)	10.7 (0.6)

Region	Without CCs Age <65	 65-69	 70+
U.S.	2.2 (0.9)	3.5 (1.2)	5.4 (0.5)
Northeast	2.1 (2.1)	2.8 (2.7)	4.8 (1.1)
North Central	1.2 (1.8)	2.1 (2.4)	5.1 (1.0)
South	2.7 (1.5)	5.5 (2.0)	6.7 (0.9)
West	2.4 (2.6)	2.3 (3.3)	3.9 (1.4)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 91
Deep Vein Thrombophlebitis
DRG(s): 128

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	1.1 (1.1)	2.5 (2.1)	2.1 (1.1)
Northeast	1.3 (2.3)	3.3 (4.6)	1.3 (2.3)
North Central	1.4 (2.1)	1.9 (3.6)	3.8 (2.2)
South	1.3 (1.9)	3.0 (3.7)	1.4 (1.9)
West	0.0 (2.9)	2.1 (5.4)	1.7 (2.8)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.8)	0.0 (2.0)	0.0 (1.2)
Northeast	0.0 (1.8)	0.0 (4.3)	0.0 (2.8)
North Central	0.0 (1.5)	0.0 (3.8)	0.0 (2.4)
South	0.0 (1.4)	0.0 (3.3)	0.0 (2.0)
West	0.0 (2.5)	0.0 (5.3)	0.0 (3.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 92
Cardiac Arrest, Unexplained
DRG(s): 129

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	76.5 (2.5)	72.5 (3.7)	81.7 (1.8)
Northeast	80.5 (5.2)	73.3 (9.1)	75.8 (4.7)
North Central	77.9 (4.5)	84.2 (7.3)	78.9 (3.5)
South	70.9 (4.6)	87.3 (6.8)	86.9 (2.9)
West	78.2 (5.6)	47.5 (6.7)	79.3 (4.3)

Region	Without CCs Age <65	 65-69	 70+
U.S.	72.1 (5.4)	69.8 (8.5)	80.7 (4.6)
Northeast	75.2 (32.9)	100.0 (22.9)	96.4 (12.6)
North Central	87.3 (13.2)	100.0 (16.5)	78.7 (7.6)
South	67.7 (6.6)	27.5 (14.1)	85.4 (7.9)
West	74.3 (13.8)	82.8 (17.2)	58.7 (12.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 93
Peripheral Vascular Disorders
DRG(s): 130, 131

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	2.5 (0.8)	3.1 (1.3)	8.2 (0.7)
Northeast	3.2 (1.6)	1.4 (2.6)	8.3 (1.4)
North Central	2.0 (1.4)	2.9 (2.4)	8.8 (1.3)
South	3.3 (1.4)	4.8 (2.4)	8.1 (1.2)
West	0.3 (2.2)	2.4 (3.4)	7.0 (1.9)

Region	Without CCs Age <65	65-69	70+
U.S.	0.1 (0.7)	1.1 (1.5)	3.1 (0.9)
Northeast	0.0 (1.5)	2.3 (3.0)	2.4 (1.8)
North Central	0.1 (1.2)	0.0 (2.8)	3.4 (1.6)
South	0.1 (1.2)	0.5 (2.6)	3.4 (1.6)
West	0.0 (2.0)	2.8 (4.7)	2.6 (2.8)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 94
Atherosclerosis
DRG(s): 132, 133

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	1.3 (1.1)	4.3 (2.0)	8.0 (1.1)
Northeast	1.7 (2.6)	3.7 (4.1)	6.8 (2.1)
North Central	3.3 (2.2)	9.0 (4.6)	10.0 (2.1)
South	0.4 (1.6)	2.0 (3.0)	8.1 (1.7)
West	0.0 (3.0)	6.3 (5.9)	6.3 (3.1)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.3 (1.1)	0.0 (2.8)	1.0 (1.8)
Northeast	0.2 (2.7)	0.0 (6.1)	0.3 (3.7)
North Central	0.7 (1.7)	0.0 (3.9)	1.8 (3.0)
South	0.0 (2.2)	0.0 (5.9)	0.9 (3.0)
West	0.0 (3.4)	0.0 (10.7)	0.0 (5.6)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 95
Hypertension
DRG(s): 134

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+	Region	Without CCs Age <65	65-69	70+
U.S.	0.8 (0.9)	1.1 (1.8)	2.0 (1.1)	U.S.	0.0 (0.7)	0.3 (2.0)	0.1 (1.3)
Northeast	1.8 (2.4)	2.2 (4.5)	3.8 (2.7)	Northeast	0.0 (1.9)	0.0 (4.5)	0.7 (3.1)
North Central	0.5 (1.8)	0.0 (3.7)	1.3 (2.1)	North Central	0.0 (1.5)	0.0 (4.2)	0.0 (2.5)
South	0.8 (1.3)	1.5 (2.6)	2.1 (1.6)	South	0.1 (0.9)	0.6 (2.8)	0.0 (2.0)
West	0.0 (2.7)	0.0 (4.9)	0.7 (3.1)	West	0.0 (2.4)	0.0 (6.2)	0.0 (4.0)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+		Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 96
Cardiac Congenital & Valvular Disorders
DRG(s): 135, 136, 137

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+	Region	Without CCs Age <65	65-69	70+
U.S.	5.3 (1.7)	3.6 (4.1)	12.1 (2.0)	U.S.	1.4 (1.3)	0.0 (5.4)	1.8 (3.6)
Northeast	2.2 (4.0)	6.5 (6.9)	12.1 (3.8)	Northeast	2.4 (3.1)	0.0 (8.7)	2.4 (5.8)
North Central	4.2 (3.3)	0.0 (8.7)	13.8 (4.0)	North Central	1.1 (2.8)	0.0 (13.7)	0.0 (7.1)
South	6.7 (2.9)	0.0 (8.5)	13.1 (3.6)	South	1.1 (2.0)	0.0 (10.6)	0.0 (7.3)
West	7.7 (4.1)	7.0 (10.0)	8.5 (4.6)	West	1.3 (4.0)	0.0 (11.5)	6.2 (9.4)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+		Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 97
Cardiac Arrhythmia & Conduction Disorders
DRG(s): 138, 139

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	2.2 (0.6)	3.0 (0.8)	4.1 (0.4)
Northeast	1.7 (1.2)	3.5 (1.7)	4.6 (0.8)
North Central	2.6 (1.1)	2.5 (1.6)	3.8 (0.8)
South	2.2 (0.9)	2.7 (1.3)	3.8 (0.6)
West	2.4 (1.4)	4.1 (1.9)	4.6 (1.0)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.1 (0.6)	0.0 (1.0)	0.7 (0.6)
Northeast	0.0 (1.2)	0.0 (2.2)	0.9 (1.2)
North Central	0.1 (1.1)	0.0 (2.1)	0.6 (1.2)
South	0.3 (0.9)	0.0 (1.8)	1.0 (1.0)
West	0.0 (1.5)	0.0 (2.6)	0.2 (1.4)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 98
Angina Pectoris
DRG(s): 140

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	0.3 (0.5)	0.9 (0.7)	1.2 (0.4)
Northeast	0.4 (1.0)	0.9 (1.4)	0.9 (0.7)
North Central	0.6 (0.9)	1.0 (1.4)	1.0 (0.7)
South	0.1 (0.8)	0.8 (1.1)	1.3 (0.6)
West	0.2 (1.4)	0.5 (2.0)	1.8 (1.0)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (0.4)	0.2 (0.7)	0.1 (0.4)
Northeast	0.0 (0.8)	0.2 (1.3)	0.0 (0.8)
North Central	0.0 (0.8)	0.5 (1.5)	0.2 (0.9)
South	0.0 (0.7)	0.0 (1.2)	0.2 (0.7)
West	0.0 (1.1)	0.3 (1.9)	0.2 (1.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 99
Syncope & Collapse
DRG(s): 141, 142

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs		
	Age		
	<65	65-69	70+
U.S.	0.2 (0.9)	0.7 (1.4)	1.0 (0.6)
Northeast	0.5 (2.0)	1.2 (3.0)	0.8 (1.2)
North Central	0.2 (1.6)	0.0 (2.8)	1.0 (1.2)
South	0.0 (1.4)	1.0 (2.6)	1.1 (1.1)
West	0.0 (2.2)	0.8 (3.5)	0.9 (1.5)

Region	Without CCs		
	Age		
	<65	65-69	70+
U.S.	0.0 (0.7)	0.0 (1.7)	0.0 (0.7)
Northeast	0.0 (1.5)	0.0 (3.4)	0.0 (1.5)
North Central	0.0 (1.4)	0.0 (4.0)	0.0 (1.6)
South	0.0 (1.0)	0.0 (2.8)	0.1 (1.3)
West	0.0 (2.0)	0.0 (3.7)	0.0 (1.8)

ACTUAL DEATH RATES

PROVIDER

	With CCs		
	Age		
	<65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs		
	Age		
	<65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 100
Chest Pain
DRG(s): 143

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
U.S.	0.1 (0.6)	0.6 (1.4)	1.6 (0.9)
Northeast	0.0 (1.5)	0.0 (3.2)	3.1 (2.2)
North Central	0.2 (1.2)	1.3 (3.0)	1.3 (2.0)
South	0.2 (1.0)	0.4 (2.3)	1.7 (1.4)
West	0.0 (1.5)	0.8 (3.3)	0.5 (1.8)

Region	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	0.0 (0.4)	0.0 (1.3)	0.3 (1.0)
Northeast	0.0 (0.9)	0.0 (2.5)	0.0 (2.2)
North Central	0.0 (0.8)	0.0 (2.7)	0.8 (2.1)
South	0.0 (0.6)	0.0 (2.2)	0.3 (1.5)
West	0.0 (1.0)	0.0 (2.9)	0.0 (2.0)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 101
Other Circulatory System Dxs
DRG(s): 144, 145

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	7.2 (0.8)	10.1 (1.4)	14.4 (0.9)
Northeast	5.8 (1.7)	11.8 (3.1)	15.8 (1.8)
North Central	6.1 (1.6)	8.7 (2.9)	14.2 (1.8)
South	9.5 (1.3)	9.7 (2.4)	14.5 (1.5)
West	5.8 (1.9)	10.8 (3.2)	12.9 (2.0)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.8 (1.0)	2.0 (2.7)	5.2 (1.9)
Northeast	1.0 (1.9)	0.0 (6.6)	1.9 (3.7)
North Central	1.6 (2.0)	0.0 (5.9)	5.9 (4.0)
South	0.4 (1.7)	2.0 (4.4)	8.3 (3.1)
West	0.0 (2.4)	5.1 (5.5)	2.9 (4.6)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 102
Rectal Resection
DRG(s): 146, 147

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	2.7 (1.3)	5.8 (2.0)	10.7 (1.2)
Northeast	2.9 (2.4)	7.3 (3.4)	10.8 (2.2)
North Central	2.7 (2.6)	4.7 (3.7)	14.0 (2.3)
South	3.7 (2.4)	4.6 (4.2)	9.8 (2.4)
West	0.8 (3.0)	6.2 (4.8)	6.7 (2.8)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.7)	0.0 (3.3)	1.0 (2.4)
Northeast	0.0 (3.5)	0.0 (6.0)	0.0 (4.5)
North Central	0.0 (3.4)	0.0 (6.6)	1.6 (4.7)
South	0.0 (2.9)	0.0 (6.9)	2.1 (4.6)
West	0.0 (3.9)	0.0 (7.4)	0.0 (5.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 103
Major Small Bowel & Large Bowel Procedures
DRG(s): 148, 149

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	5.5 (0.5)	6.4 (0.9)	12.6 (0.5)
Northeast	5.5 (1.1)	6.6 (1.8)	13.0 (0.9)
North Central	5.2 (1.1)	7.1 (1.8)	11.8 (0.9)
South	6.7 (0.9)	5.7 (1.5)	13.3 (0.8)
West	3.9 (1.3)	6.3 (2.2)	11.8 (1.2)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.1 (0.7)	0.0 (1.4)	1.7 (0.9)
Northeast	0.3 (1.5)	0.0 (3.0)	1.3 (1.8)
North Central	0.1 (1.4)	0.0 (2.9)	2.4 (1.8)
South	0.0 (1.1)	0.0 (2.5)	1.6 (1.5)
West	0.0 (1.6)	0.0 (3.5)	1.3 (2.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 104
Peritoneal Adhesiolysis
DRG(s): 150, 151

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	2.3 (1.1)	6.3 (2.5)	8.5 (1.3)
Northeast	1.4 (2.6)	17.3 (5.9)	9.9 (2.9)
North Central	1.8 (2.3)	8.7 (4.4)	9.3 (2.4)
South	3.4 (1.9)	1.6 (4.5)	8.6 (2.3)
West	2.0 (2.6)	0.0 (5.6)	5.0 (3.2)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (0.9)	0.0 (3.1)	1.4 (2.0)
Northeast	0.0 (2.3)	0.0 (7.0)	0.1 (4.4)
North Central	0.0 (1.8)	0.0 (5.7)	1.6 (3.9)
South	0.0 (1.4)	0.0 (5.1)	2.5 (3.2)
West	0.0 (2.2)	0.0 (8.3)	0.0 (5.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 105
Minor Small & Large Bowel Procedures
DRG(s): 152, 153

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.3 (1.9)	5.5 (3.2)	4.7 (1.9)
Northeast	1.1 (3.9)	7.9 (5.9)	4.2 (3.9)
North Central	0.0 (4.0)	8.4 (6.1)	4.2 (3.4)
South	0.0 (3.0)	0.0 (6.1)	7.0 (3.3)
West	0.0 (5.3)	5.8 (8.3)	1.7 (5.0)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.3)	0.0 (3.5)	0.5 (2.6)
Northeast	0.0 (2.9)	0.0 (7.0)	0.0 (4.7)
North Central	0.0 (3.1)	0.0 (9.1)	0.0 (4.9)
South	0.0 (1.9)	0.0 (5.3)	0.0 (4.7)
West	0.0 (3.5)	0.0 (9.4)	3.4 (7.0)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 106
Stomach, Esophageal, & Duodenal Procedures
DRG(s): 154, 155, 156

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
U.S.	6.1 (0.7)	10.5 (1.4)	15.1 (0.8)
Northeast	7.7 (1.8)	11.3 (2.8)	12.0 (1.5)
North Central	7.0 (1.5)	7.8 (2.6)	14.4 (1.5)
South	6.1 (1.2)	12.6 (2.6)	16.2 (1.4)
West	3.8 (1.7)	10.5 (3.2)	17.7 (1.9)

Region	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	0.2 (0.8)	0.0 (2.3)	2.7 (1.5)
Northeast	0.0 (2.1)	0.0 (5.2)	2.0 (3.0)
North Central	0.5 (1.6)	0.0 (4.6)	2.0 (3.1)
South	0.0 (1.1)	0.0 (3.9)	5.5 (2.7)
West	0.2 (1.8)	0.0 (5.4)	0.0 (3.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 107
Anal & Stomal Procedures
DRG(s): 157, 158

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region		With CCs Age	
	<65	65-69	70+
U.S.	0.4 (0.8)	1.8 (1.7)	1.7 (1.0)
Northeast	0.4 (1.8)	1.9 (3.5)	2.8 (2.1)
North Central	0.4 (1.8)	0.8 (3.4)	2.0 (2.1)
South	0.4 (1.3)	2.2 (2.9)	1.0 (1.6)
West	0.0 (2.4)	2.3 (5.0)	1.5 (2.9)

Region		Without CCs Age	
	<65	65-69	70+
U.S.	0.0 (0.4)	0.0 (1.4)	0.1 (1.1)
Northeast	0.0 (0.8)	0.0 (2.9)	0.6 (2.2)
North Central	0.0 (0.8)	0.0 (2.9)	0.0 (2.2)
South	0.0 (0.6)	0.0 (2.2)	0.0 (1.7)
West	0.0 (1.0)	0.0 (3.4)	0.0 (2.9)

ACTUAL DEATH RATES

PROVIDER

		With CCs Age	
	<65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

		Without CCs Age	
	<65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 108
Hernia Procedures Except Inguinal & Femoral, Ages 18+
DRG(s): 159, 160

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.8 (1.3)	0.8 (2.4)	2.4 (1.6)
Northeast	1.1 (2.9)	0.0 (5.1)	2.6 (3.2)
North Central	1.5 (2.4)	0.0 (4.2)	4.2 (3.2)
South	0.5 (2.3)	2.2 (4.1)	1.1 (3.0)
West	0.0 (3.4)	0.0 (7.4)	1.2 (4.2)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.6)	0.0 (1.8)	0.0 (1.4)
Northeast	0.0 (1.4)	0.0 (3.9)	0.0 (2.9)
North Central	0.0 (1.2)	0.0 (3.6)	0.0 (2.6)
South	0.0 (1.1)	0.0 (2.8)	0.0 (2.3)
West	0.0 (1.7)	0.0 (4.5)	0.0 (3.6)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 109
Inguinal & Femoral Hernia Procedures, Ages 18+
DRG(s): 161, 162

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.2 (1.0)	0.0 (1.5)	1.9 (0.8)
Northeast	0.0 (1.9)	0.0 (3.0)	1.9 (1.4)
North Central	0.6 (1.9)	0.0 (2.9)	1.9 (1.6)
South	0.0 (1.8)	0.0 (2.5)	1.9 (1.5)
West	0.0 (3.0)	0.0 (5.3)	1.8 (2.5)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.4)	0.0 (1.0)	0.0 (0.7)
Northeast	0.0 (0.7)	0.0 (1.7)	0.0 (1.2)
North Central	0.0 (0.7)	0.0 (1.9)	0.1 (1.3)
South	0.0 (0.6)	0.0 (1.6)	0.0 (1.1)
West	0.0 (1.2)	0.0 (3.3)	0.0 (2.1)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 110
Hernia Procedures, Ages 0-17
DRG(s): 163

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs			Region	Without CCs		
	Age				Age		
	<65	65-69	70+		<65	65-69	70+
U.S.	0.8 (3.4)	– (–)	– (–)	U.S.	0.0 (0.9)	– (–)	– (–)
Northeast	0.0 (7.8)	– (–)	– (–)	Northeast	0.0 (2.0)	– (–)	– (–)
North Central	5.8 (9.1)	– (–)	– (–)	North Central	0.0 (1.9)	– (–)	– (–)
South	0.0 (4.9)	– (–)	– (–)	South	0.0 (1.3)	– (–)	– (–)
West	0.0 (8.5)	– (–)	– (–)	West	0.0 (2.8)	– (–)	– (–)

ACTUAL DEATH RATES

PROVIDER

	With CCs				Without CCs		
	Age				Age		
	<65	65-69	70+		<65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 111
Appendectomy w/ Complicated Prin Dx
DRG(s): 164, 165

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+	Region	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	1.0 (1.3)	1.0 (3.8)	6.5 (2.7)	U.S.	0.0 (0.8)	0.0 (3.9)	0.0 (3.5)
Northeast	0.5 (2.5)	0.0 (9.1)	5.4 (6.2)	Northeast	0.0 (1.7)	0.0 (8.3)	0.0 (7.8)
North Central	1.8 (2.4)	0.0 (7.2)	8.9 (5.1)	North Central	0.0 (1.6)	0.0 (7.5)	0.0 (8.0)
South	0.9 (2.4)	3.7 (7.2)	5.4 (4.8)	South	0.0 (1.4)	0.0 (7.0)	0.0 (6.4)
West	0.7 (2.7)	0.0 (7.5)	5.6 (6.3)	West	0.0 (1.7)	0.0 (9.2)	0.0 (6.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+		Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷	No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 112
Appendectomy w/o Complicated Prin Dx
DRG(s): 166, 167

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (1.2)	0.0 (6.1)	2.8 (3.7)
Northeast	0.0 (2.7)	0.0 (12.1)	0.1 (7.8)
North Central	0.0 (2.2)	0.0 (16.8)	3.6 (7.3)
South	0.0 (2.0)	0.0 (12.0)	2.8 (6.4)
West	0.0 (2.8)	0.0 (10.1)	4.8 (8.4)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.3)	1.0 (3.8)	0.0 (3.3)
Northeast	0.0 (0.8)	0.0 (9.6)	0.0 (8.1)
North Central	0.0 (0.7)	0.0 (6.5)	0.0 (6.5)
South	0.0 (0.6)	0.0 (7.1)	0.0 (6.0)
West	0.0 (0.7)	5.0 (8.4)	0.0 (6.7)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 113
Mouth Procedures
DRG: 168, 169

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	2.1 (1.1)	4.6 (3.7)	10.1 (1.9)
Northeast	2.7 (2.7)	16.6 (8.2)	18.5 (4.6)
North Central	1.2 (2.1)	0.0 (6.3)	12.8 (3.9)
South	3.2 (1.7)	3.5 (6.5)	6.6 (3.0)
West	0.8 (2.4)	0.0 (11.6)	5.4 (5.1)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.5)	0.0 (3.1)	0.4 (2.3)
Northeast	0.0 (1.5)	0.0 (7.9)	0.0 (4.6)
North Central	0.0 (1.1)	0.0 (7.0)	1.4 (4.5)
South	0.0 (0.8)	0.0 (4.5)	0.0 (3.6)
West	0.0 (1.3)	0.0 (7.5)	0.0 (6.6)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 114
Other Disgestive System O.R. Procedures
DRG(s): 170, 171

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+	Region	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	8.7 (1.3)	18.9 (2.5)	24.7 (1.6)	U.S.	0.4 (1.0)	0.0 (4.6)	7.4 (3.3)
Northeast	9.3 (3.1)	21.6 (4.7)	26.7 (3.0)	Northeast	0.8 (2.4)	0.0 (9.8)	0.0 (8.1)
North Central	8.4 (2.5)	24.0 (5.4)	31.8 (3.3)	North Central	0.0 (2.1)	0.0 (8.6)	3.6 (6.5)
South	9.2 (2.1)	9.7 (4.4)	17.2 (3.0)	South	0.5 (1.5)	0.0 (8.6)	11.3 (5.0)
West	7.7 (3.1)	26.0 (6.3)	24.0 (4.3)	West	0.5 (2.6)	0.0 (10.5)	10.1 (8.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+		Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷	No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 115
Digestive Malignancy
DRG(s): 172, 173

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
U.S.	31.2 (1.1)	33.8 (1.7)	28.3 (0.9)
Northeast	31.4 (2.4)	37.0 (3.4)	27.3 (1.6)
North Central	31.8 (2.0)	34.2 (2.9)	28.4 (1.7)
South	28.4 (1.8)	29.7 (3.1)	29.9 (1.6)
West	36.3 (2.8)	36.7 (4.7)	26.6 (2.5)

Region	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	13.5 (2.0)	19.4 (3.5)	13.6 (2.0)
Northeast	7.8 (4.7)	26.0 (6.9)	9.6 (4.3)
North Central	9.6 (4.0)	10.2 (8.2)	16.5 (4.1)
South	16.5 (3.0)	15.8 (5.1)	11.6 (3.1)
West	18.8 (5.6)	37.0 (11.4)	20.8 (5.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 116
G.I. Hemorrhage
DRG(s): 174, 175

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	3.9 (0.6)	5.2 (1.0)	8.0 (0.4)
Northeast	3.4 (1.2)	4.6 (2.0)	8.4 (0.9)
North Central	3.8 (1.2)	5.4 (2.0)	7.4 (0.8)
South	4.5 (1.0)	5.9 (1.7)	8.9 (0.7)
West	3.7 (1.3)	4.4 (2.3)	6.1 (1.1)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.1 (0.7)	0.2 (1.5)	1.8 (0.8)
Northeast	0.0 (1.4)	0.0 (3.0)	1.3 (1.6)
North Central	0.3 (1.4)	0.7 (3.3)	2.5 (1.6)
South	0.0 (1.1)	0.0 (2.5)	2.2 (1.4)
West	0.2 (1.6)	0.0 (3.9)	1.0 (1.8)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 117
Complicated Peptic Ulcer
DRG(s): 176

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+	Region	Without CCs Age <65	65-69	70+
U.S.	2.7 (2.0)	2.4 (3.5)	9.3 (1.8)	U.S.	0.0 (1.8)	5.7 (5.1)	3.1 (2.9)
Northeast	1.4 (4.5)	4.2 (7.8)	14.0 (3.8)	Northeast	0.0 (4.4)	22.5 (10.2)	6.9 (5.6)
North Central	3.0 (3.8)	0.0 (6.9)	8.5 (3.8)	North Central	0.0 (3.7)	0.0 (9.4)	0.0 (5.9)
South	3.1 (3.4)	3.6 (5.8)	6.8 (3.1)	South	0.0 (2.6)	0.0 (9.5)	3.6 (5.0)
West	3.2 (4.8)	1.4 (8.9)	9.2 (4.2)	West	0.0 (5.2)	0.0 (12.6)	0.0 (8.1)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+		Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 118
Uncomplicated Peptic Ulcer
DRG(s): 177, 178

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+	Region	Without CCs Age <65	 65-69	 70+
U.S.	0.1 (1.0)	0.0 (2.4)	0.5 (1.3)	U.S.	0.0 (0.7)	0.0 (2.7)	0.2 (1.7)
Northeast	0.0 (2.7)	0.0 (6.7)	0.5 (2.8)	Northeast	0.0 (2.1)	0.0 (6.7)	1.2 (4.2)
North Central	0.3 (2.0)	0.0 (4.3)	0.4 (2.4)	North Central	0.0 (1.5)	0.0 (6.9)	0.0 (3.5)
South	0.2 (1.5)	0.0 (3.8)	0.8 (2.0)	South	0.0 (1.0)	0.0 (3.6)	0.0 (2.6)
West	0.0 (3.1)	0.0 (6.3)	0.0 (3.3)	West	0.0 (2.5)	0.0 (7.3)	0.0 (5.1)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+		Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷	No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 119
Inflammatory Bowel Disease
DRG(s): 179

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.1 (1.2)	0.0 (3.5)	0.8 (2.5)
Northeast	0.0 (2.2)	0.0 (6.8)	2.6 (4.5)
North Central	0.0 (2.5)	0.0 (7.6)	0.0 (4.9)
South	0.4 (2.3)	0.0 (5.8)	0.2 (5.0)
West	0.0 (3.3)	0.0 (8.2)	0.0 (5.8)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.1)	0.0 (6.4)	0.0 (3.9)
Northeast	0.0 (2.0)	0.0 (10.3)	0.0 (7.3)
North Central	0.0 (2.4)	0.0 (11.7)	0.0 (8.2)
South	0.0 (1.7)	0.0 (14.9)	0.0 (5.9)
West	0.0 (3.0)	0.0 (17.7)	0.0 (15.6)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 120
G.I. Obstruction
DRG(s): 180, 181

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	3.9 (1.0)	3.5 (1.5)	8.2 (0.7)
Northeast	7.9 (2.3)	2.9 (3.4)	7.9 (1.5)
North Central	4.0 (1.9)	2.3 (2.9)	7.1 (1.3)
South	3.7 (1.8)	3.1 (2.5)	8.8 (1.2)
West	0.0 (2.3)	6.4 (3.5)	8.8 (1.7)

Region	Without CCs Age <65	65-69	70+
U.S.	0.1 (0.7)	0.3 (1.7)	1.1 (1.0)
Northeast	0.0 (1.6)	0.0 (3.8)	2.1 (2.0)
North Central	0.3 (1.5)	0.0 (3.2)	0.2 (2.1)
South	0.0 (1.3)	0.7 (3.0)	1.1 (1.6)
West	0.0 (1.7)	0.3 (3.7)	1.1 (2.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 121
Esophagitis, Gastroent. & Misc. Digestive Disorders
DRG(s): 182, 183, 184

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.3 (0.3)	1.7 (0.7)	2.4 (0.3)
Northeast	0.3 (0.7)	3.6 (1.6)	2.6 (0.8)
North Central	0.2 (0.5)	1.8 (1.4)	2.5 (0.7)
South	0.3 (0.4)	0.9 (1.0)	2.6 (0.5)
West	0.4 (0.7)	1.8 (1.7)	1.4 (0.9)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.2)	0.1 (0.8)	0.4 (0.5)
Northeast	0.0 (0.5)	0.0 (2.1)	0.3 (1.2)
North Central	0.0 (0.4)	0.0 (1.8)	0.6 (1.0)
South	0.0 (0.3)	0.1 (1.2)	0.4 (0.8)
West	0.1 (0.6)	0.0 (2.2)	0.4 (1.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 122
Dental & Oral Disorders Except Extractions & Restorations
DRG(s): 185, 186

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+	Region	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	2.7 (1.3)	7.6 (5.1)	11.7 (3.1)	U.S.	0.1 (1.1)	0.0 (6.8)	3.3 (4.0)
Northeast	3.7 (2.8)	0.0 (15.4)	15.6 (7.5)	Northeast	0.0 (2.6)	0.0 (15.7)	4.0 (7.7)
North Central	2.7 (2.5)	26.5 (10.8)	6.1 (6.6)	North Central	0.0 (2.2)	0.0 (12.0)	6.5 (9.6)
South	1.2 (2.1)	0.0 (8.1)	16.0 (4.6)	South	0.3 (1.8)	0.0 (11.5)	2.9 (6.5)
West	5.3 (3.2)	6.3 (9.5)	3.7 (7.4)	West	0.0 (2.7)	0.0 (19.0)	0.0 (9.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+		Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷	No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 123
Dental Extractions & Restorations
DRG(s): 187

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+	Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (2.3)	0.0 (9.6)	0.0 (5.8)	U.S.	0.0 (1.7)	0.0 (11.1)	0.0 (5.6)
Northeast	0.0 (4.1)	0.0 (27.0)	0.0 (11.4)	Northeast	0.0 (3.1)	0.0 (15.2)	0.0 (8.5)
North Central	0.0 (4.6)	0.0 (15.5)	0.0 (13.7)	North Central	0.0 (3.7)	- (-)	0.0 (11.5)
South	0.0 (3.8)	0.0 (18.8)	0.0 (9.5)	South	0.0 (2.6)	0.0 (17.3)	0.0 (11.0)
West	0.0 (8.7)	0.0 (19.9)	0.0 (13.5)	West	0.0 (5.9)	- (-)	0.0 (22.7)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+		Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷	No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 124
Other Digestive System Dxs
DRG(s): 188, 189, 190

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
U.S.	2.1 (0.9)	7.5 (2.0)	12.7 (0.9)
Northeast	1.3 (2.0)	2.2 (4.0)	15.1 (1.9)
North Central	0.8 (1.8)	10.2 (4.1)	12.7 (1.8)
South	2.5 (1.4)	10.2 (3.2)	10.8 (1.7)
West	4.3 (2.3)	3.6 (6.6)	12.8 (2.3)

Region	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	0.0 (0.6)	1.2 (2.4)	1.8 (1.4)
Northeast	0.0 (1.4)	2.1 (5.5)	2.5 (2.8)
North Central	0.0 (1.2)	1.8 (5.1)	1.3 (3.0)
South	0.0 (0.9)	0.9 (3.7)	1.6 (2.2)
West	0.0 (1.8)	0.0 (6.8)	2.0 (3.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 125
Major Pancreas, Liver, & Shunt Procedures
DRG(s): 191

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	12.2 (1.4)	10.4 (3.2)	18.4 (2.4)
Northeast	13.1 (3.0)	9.7 (6.8)	17.8 (5.0)
North Central	9.7 (2.9)	12.7 (6.5)	24.6 (5.0)
South	12.7 (2.2)	7.8 (5.3)	13.7 (4.5)
West	13.2 (3.2)	14.4 (8.4)	18.7 (4.9)

Region	Without CCs Age <65	 65-69	 70+
U.S.	1.1 (2.5)	5.8 (8.4)	0.0 (5.6)
Northeast	0.0 (7.0)	0.0 (19.5)	0.0 (12.0)
North Central	2.1 (5.5)	0.0 (14.7)	0.0 (14.2)
South	1.5 (3.8)	17.1 (14.5)	0.0 (9.1)
West	0.0 (5.3)	0.0 (21.8)	0.0 (11.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 126
Minor Pancreas, Liver, & Shunt Procedures
DRG(s): 192

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	9.9 (2.4)	10.1 (4.1)	21.2 (2.7)
Northeast	12.6 (5.2)	16.5 (8.8)	34.5 (7.0)
North Central	14.6 (4.8)	0.0 (9.2)	15.6 (4.6)
South	7.2 (3.7)	6.5 (6.6)	24.1 (4.6)
West	4.7 (6.6)	20.1 (9.2)	15.0 (6.6)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (3.7)	9.1 (11.4)	0.0 (6.9)
Northeast	0.0 (8.0)	26.3 (19.4)	0.0 (22.1)
North Central	0.0 (9.5)	0.0 (15.5)	0.0 (15.5)
South	0.0 (5.3)	0.0 (35.0)	0.0 (11.6)
West	0.0 (10.1)	- (-)	0.0 (11.8)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 127
Biliary Tract Procedures Except Total Cholecystectomy
DRG(s): 193, 194

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	5.4 (2.0)	10.4 (3.1)	16.8 (1.5)
Northeast	8.4 (4.1)	1.1 (5.9)	22.2 (3.0)
North Central	4.6 (4.0)	10.9 (6.4)	14.1 (3.1)
South	6.4 (3.3)	12.0 (5.2)	14.5 (2.7)
West	0.0 (4.8)	23.2 (8.1)	16.9 (3.3)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (2.4)	3.4 (5.3)	0.5 (2.8)
Northeast	0.0 (5.1)	18.7 (12.5)	0.0 (6.3)
North Central	0.0 (4.9)	0.0 (13.4)	2.3 (5.9)
South	0.0 (3.8)	0.0 (8.2)	0.0 (4.5)
West	0.0 (6.1)	0.0 (10.7)	0.0 (6.0)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 128
Total Cholecystectomy w/ C.D.E.
DRG(s): 195, 196

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+	Region	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	0.3 (0.9)	1.5 (1.7)	6.2 (1.0)		0.0 (1.3)	0.0 (3.8)	0.0 (2.4)
Northeast	0.3 (2.1)	1.9 (3.7)	7.2 (2.0)	Northeast	0.0 (3.1)	0.0 (8.4)	0.0 (5.2)
North Central	0.0 (1.8)	3.2 (3.5)	6.9 (1.9)	North Central	0.0 (3.0)	0.0 (7.9)	0.0 (4.9)
South	0.2 (1.5)	1.0 (2.7)	4.6 (1.6)	South	0.0 (2.0)	0.0 (5.6)	0.0 (4.1)
West	0.9 (2.1)	0.0 (4.0)	6.9 (2.5)	West	0.0 (3.3)	0.0 (10.4)	0.0 (5.8)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+		Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 129
Total Cholecystectomy w/o C.D.E.
DRG(s): 197, 198

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

With CCs

Region	Age <65	Age 65-69	Age 70+
U.S.	0.4 (0.4)	1.3 (1.0)	3.9 (0.7)
Northeast	0.4 (1.0)	1.5 (2.1)	3.5 (1.5)
North Central	0.3 (0.8)	1.0 (1.9)	3.7 (1.3)
South	0.5 (0.7)	1.9 (1.7)	3.6 (1.2)
West	0.5 (1.0)	0.0 (2.5)	5.5 (1.7)

Without CCs

Region	Age <65	Age 65-69	Age 70+
U.S.	0.0 (0.3)	0.0 (1.1)	0.2 (0.9)
Northeast	0.0 (0.8)	0.0 (2.5)	0.0 (2.2)
North Central	0.0 (0.6)	0.0 (2.2)	0.2 (1.8)
South	0.0 (0.5)	0.0 (1.8)	0.3 (1.5)
West	0.0 (0.8)	0.0 (2.8)	0.0 (2.3)

ACTUAL DEATH RATES

PROVIDER

With CCs

	Age <65	Age 65-69	Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

Without CCs

	Age <65	Age 65-69	Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 130
Hepatobiliary Diagnostic Procedure for Malignancy
DRG(s): 199

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	10.9 (2.8)	13.7 (4.1)	30.6 (2.5)
Northeast	15.6 (6.6)	17.9 (7.7)	34.6 (5.2)
North Central	10.6 (5.0)	10.4 (8.4)	38.7 (5.0)
South	9.0 (5.0)	13.3 (6.5)	19.8 (4.5)
West	10.4 (6.9)	11.5 (13.1)	33.3 (5.9)

Region	Without CCs Age <65	 65-69	 70+
U.S.	2.4 (5.8)	0.0 (7.2)	11.4 (5.7)
Northeast	0.0 (13.7)	0.0 (12.8)	0.0 (14.8)
North Central	0.0 (11.2)	0.0 (19.0)	20.7 (12.2)
South	0.0 (8.8)	0.0 (12.5)	5.3 (8.7)
West	20.5 (17.1)	0.0 (15.6)	23.6 (13.1)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 131
Hepatobiliary Diagnostic Procedure for Non-Malignancy
DRG(s): 200

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	12.1 (2.5)	14.1 (6.2)	24.2 (4.1)
Northeast	5.3 (6.4)	41.9 (14.2)	17.3 (10.2)
North Central	9.9 (5.8)	30.9 (13.7)	31.6 (8.1)
South	11.9 (3.5)	0.0 (9.4)	25.1 (6.4)
West	21.6 (6.2)	0.0 (14.5)	18.2 (9.4)

Region	Without CCs Age <65	 65-69	 70+
U.S.	1.7 (2.9)	0.0 (8.7)	4.3 (6.7)
Northeast	0.0 (6.7)	0.0 (21.3)	8.3 (20.2)
North Central	6.0 (7.1)	0.0 (26.7)	13.7 (13.6)
South	1.4 (3.8)	0.0 (11.6)	0.0 (9.6)
West	0.0 (8.5)	0.0 (22.0)	0.0 (17.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 132
Other Hepatobiliary or Pancreas O.R. Procedures
DRG(s): 201

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	14.4 (1.7)	17.0 (4.1)	25.1 (3.1)
Northeast	11.0 (2.8)	17.2 (7.2)	40.9 (6.3)
North Central	12.2 (4.2)	34.5 (10.0)	19.6 (6.2)
South	19.4 (3.6)	12.3 (7.1)	21.2 (5.9)
West	16.7 (3.8)	7.7 (10.5)	19.5 (6.1)

Region	Without CCs Age <65	 65-69	 70+
U.S.	5.5 (5.6)	0.0 (14.9)	0.0 (13.2)
Northeast	0.0 (9.8)	0.0 (17.9)	0.0 (14.4)
North Central	0.0 (14.0)	- (-)	- (-)
South	14.7 (9.2)	- (-)	0.0 (37.8)
West	0.0 (14.7)	0.0 (27.0)	- (-)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 133
Cirrhosis & Alcoholic Hepatitis
DRG(s): 202

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	12.3 (0.9)	24.3 (2.1)	21.4 (1.6)
Northeast	12.1 (1.7)	25.1 (4.2)	23.7 (2.9)
North Central	9.3 (1.7)	16.9 (4.2)	25.4 (3.3)
South	15.5 (1.5)	23.8 (3.4)	17.5 (2.7)
West	11.3 (2.3)	36.0 (5.3)	19.0 (4.4)

Region	Without CCs Age <65	 65-69	 70+
U.S.	4.2 (2.2)	7.8 (5.9)	4.1 (5.2)
Northeast	7.3 (4.9)	0.0 (14.0)	0.0 (13.7)
North Central	4.5 (4.7)	9.0 (11.3)	5.3 (8.7)
South	3.0 (3.2)	11.2 (8.5)	6.8 (9.1)
West	3.2 (6.8)	0.0 (21.8)	0.0 (12.4)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 134
Malignancy of Hepatobiliary System or Pancreas
DRG(s): 203

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	37.9 (1.1)	43.6 (1.7)	41.9 (1.0)
Northeast	40.6 (2.5)	44.8 (3.2)	54.2 (2.1)
North Central	40.9 (2.1)	42.0 (3.4)	44.9 (2.1)
South	34.3 (2.0)	44.0 (2.7)	35.5 (1.7)
West	36.1 (2.9)	42.9 (4.8)	31.2 (2.7)

Region	Without CCs Age <65	 65-69	 70+
U.S.	21.3 (1.9)	18.8 (3.4)	29.8 (2.1)
Northeast	17.0 (4.0)	21.2 (7.0)	26.8 (4.5)
North Central	21.4 (4.3)	22.0 (6.3)	38.9 (3.8)
South	25.5 (3.1)	9.6 (5.9)	28.6 (3.7)
West	16.4 (5.0)	28.5 (8.6)	19.0 (5.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 135
Disorders of Pancreas Except Malignancy
DRG(s): 204

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	1.0 (0.7)	3.1 (2.2)	5.9 (1.3)
Northeast	1.6 (1.5)	5.4 (5.9)	5.5 (2.7)
North Central	1.0 (1.3)	0.0 (4.7)	5.6 (2.4)
South	1.0 (1.1)	4.4 (3.4)	7.1 (2.0)
West	0.2 (1.8)	1.9 (5.2)	3.5 (3.5)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.1 (0.7)	0.8 (2.5)	0.3 (1.7)
Northeast	0.0 (1.8)	2.5 (6.0)	0.0 (3.9)
North Central	0.1 (1.4)	0.0 (4.4)	0.0 (3.9)
South	0.1 (1.2)	1.0 (3.8)	0.7 (2.4)
West	0.3 (1.9)	0.0 (7.9)	0.0 (4.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 136
Disorders of Liver Except Malignancy, Cirrhosis, Alcoholic Hepatitis
DRG(s): 205, 206

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

With CCs

Region	Age <65	Age 65-69	Age 70+
U.S.	13.1 (0.9)	18.6 (1.9)	23.9 (1.4)
Northeast	13.8 (1.9)	28.9 (4.2)	28.4 (2.6)
North Central	14.7 (1.7)	20.9 (4.1)	25.9 (2.7)
South	11.1 (1.4)	14.9 (3.2)	21.3 (2.4)
West	14.4 (2.1)	11.9 (4.4)	18.3 (3.5)

Without CCs

Region	Age <65	Age 65-69	Age 70+
U.S.	0.8 (0.9)	4.1 (3.8)	1.8 (2.7)
Northeast	0.4 (2.2)	7.6 (10.4)	7.5 (6.5)
North Central	0.6 (1.9)	4.7 (8.2)	0.0 (5.0)
South	1.3 (1.3)	3.9 (5.3)	0.0 (4.2)
West	0.0 (2.3)	0.0 (10.6)	3.8 (7.4)

ACTUAL DEATH RATES

PROVIDER

With CCs

	Age <65	Age 65-69	Age 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

Without CCs

	Age <65	Age 65-69	Age 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 137
Disorders of Biliary Tract
DRG(s): 207, 208

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.5 (1.0)	2.7 (1.8)	5.0 (0.9)
Northeast	0.4 (2.4)	2.3 (4.0)	8.0 (1.8)
North Central	0.5 (1.9)	3.4 (3.5)	5.3 (1.7)
South	0.8 (1.6)	1.9 (3.1)	4.1 (1.4)
West	0.2 (2.8)	4.0 (4.7)	2.1 (2.4)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.7)	0.0 (2.0)	0.7 (1.2)
Northeast	0.0 (1.5)	0.0 (4.4)	0.0 (2.4)
North Central	0.0 (1.3)	0.0 (3.9)	0.0 (2.3)
South	0.0 (1.1)	0.0 (3.3)	1.8 (1.9)
West	0.0 (2.0)	0.0 (5.4)	0.0 (3.4)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 138
Major Joint and Limb Reattachment Procedures
DRG(s): 209

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region		With CCs	
		Age	
	<65	65-69	70+
U.S.	1.4 (1.1)	2.6 (1.2)	4.6 (0.5)
Northeast	0.5 (2.6)	3.5 (2.5)	5.1 (1.2)
North Central	1.2 (1.9)	2.1 (2.2)	3.3 (0.9)
South	2.3 (2.0)	3.4 (2.2)	6.2 (0.9)
West	1.1 (2.3)	1.3 (2.5)	3.4 (1.2)

Region		Without CCs	
		Age	
	<65	65-69	70+
U.S.	0.0 (0.7)	0.1 (1.0)	0.3 (0.6)
Northeast	0.0 (1.7)	0.0 (2.4)	0.3 (1.3)
North Central	0.0 (1.2)	0.2 (1.7)	0.2 (1.0)
South	0.0 (1.2)	0.0 (1.8)	0.4 (1.0)
West	0.0 (1.6)	0.1 (2.2)	0.3 (1.3)

ACTUAL DEATH RATES

PROVIDER

		With CCs	
		Age	
	<65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

		Without CCs	
		Age	
	<65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 139
Hip & Femur Procedures Except Major Joint
DRG(s): 210, 211, 212

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	2.1 (0.9)	3.9 (1.7)	6.9 (0.5)
Northeast	1.5 (2.1)	3.3 (3.8)	8.4 (1.0)
North Central	1.9 (1.9)	2.7 (3.3)	7.8 (1.0)
South	2.6 (1.6)	5.8 (2.9)	6.0 (0.9)
West	1.9 (2.0)	3.2 (3.5)	5.0 (1.2)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (0.8)	0.0 (1.9)	0.5 (0.7)
Northeast	0.0 (1.7)	0.0 (3.7)	0.3 (1.3)
North Central	0.0 (1.5)	0.0 (3.7)	0.8 (1.3)
South	0.0 (1.2)	0.0 (3.4)	0.4 (1.1)
West	0.0 (1.7)	0.0 (4.4)	0.3 (1.6)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 140
Amputations for Musculoskeletal System & Conn. Tissue Disorders
DRG(s): 213

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+	Region	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	3.4 (2.9)	0.0 (5.6)	6.2 (2.8)	U.S.	0.0 (2.8)	0.0 (9.0)	0.0 (5.2)
Northeast	8.5 (7.3)	0.0 (12.8)	2.5 (6.0)	Northeast	0.0 (9.2)	0.0 (20.9)	0.0 (12.9)
North Central	2.8 (6.1)	0.0 (9.8)	10.4 (5.4)	North Central	0.0 (5.3)	0.0 (18.3)	0.0 (14.4)
South	2.0 (4.8)	0.0 (10.2)	3.0 (4.6)	South	0.0 (4.5)	0.0 (14.5)	0.0 (6.8)
West	2.6 (6.1)	0.0 (12.9)	12.4 (7.7)	West	0.0 (5.7)	0.0 (21.1)	0.0 (13.9)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+		Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 141
Back & Neck Procedures
DRG: 214, 215

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	1.3 (0.8)	5.9 (2.3)	4.0 (1.6)
Northeast	0.1 (2.3)	2.5 (6.1)	11.3 (4.0)
North Central	1.4 (1.9)	10.1 (4.2)	2.8 (3.1)
South	1.5 (1.2)	4.5 (3.8)	3.9 (3.0)
West	1.4 (1.8)	4.8 (4.8)	1.6 (2.8)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.4)	0.2 (1.6)	0.3 (1.4)
Northeast	0.0 (1.2)	1.7 (4.5)	1.0 (3.9)
North Central	0.0 (0.9)	0.0 (3.2)	0.0 (2.7)
South	0.0 (0.6)	0.0 (2.8)	0.4 (2.4)
West	0.0 (0.9)	0.0 (3.2)	0.0 (2.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who' Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 142
Biopsies of Musculoskeletal System & Connective Tissue
DRG(s): 216

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs <65	With CCs 65-69	With CCs 70+	Region	Without CCs <65	Without CCs 65-69	Without CCs 70+
U.S.	3.2 (3.1)	7.1 (5.8)	6.6 (3.1)	U.S.	0.0 (1.8)	0.0 (5.9)	0.0 (3.9)
Northeast	3.0 (6.5)	21.1 (12.8)	10.2 (6.8)	Northeast	0.0 (4.1)	0.0 (10.6)	0.0 (9.2)
North Central	11.5 (8.0)	0.0 (12.2)	2.6 (6.1)	North Central	0.0 (4.0)	0.0 (12.5)	0.0 (7.1)
South	1.8 (5.0)	8.7 (10.4)	9.0 (5.4)	South	0.0 (2.8)	0.0 (10.7)	0.0 (6.6)
West	0.0 (6.7)	0.0 (11.5)	3.8 (7.4)	West	0.0 (4.6)	0.0 (15.0)	0.0 (9.8)

ACTUAL DEATH RATES

PROVIDER

	With CCs <65	With CCs 65-69	With CCs 70+		Without CCs <65	Without CCs 65-69	Without CCs 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 143
Wound Debridement & Skin Graft Except Hand, for Musculoskeletal & Conn. Tissue Dis.
DRG(s): 217

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	2.3 (1.3)	10.6 (3.2)	4.6 (2.3)
Northeast	4.8 (2.7)	4.3 (5.5)	6.6 (4.4)
North Central	0.5 (2.5)	6.7 (7.0)	2.3 (4.1)
South	3.3 (2.2)	26.0 (5.9)	5.9 (4.4)
West	0.0 (3.1)	1.2 (7.8)	3.6 (5.5)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.8)	0.0 (4.9)	0.6 (3.0)
Northeast	0.0 (2.0)	0.0 (13.2)	0.0 (6.5)
North Central	0.0 (1.4)	0.0 (8.9)	0.0 (6.6)
South	0.0 (1.3)	0.0 (7.8)	1.4 (4.6)
West	0.0 (1.9)	0.0 (11.6)	0.0 (7.4)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 144
Lower Extrem. & Humer Procedures Except Hip, Foot, Femur
DRG(s): 218, 219, 220

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+	Region	Without CCs Age <65	 65-69	 70+
U.S.	1.4 (1.1)	0.0 (2.7)	2.7 (1.6)	U.S.	0.0 (0.4)	0.0 (1.8)	0.0 (1.4)
Northeast	3.3 (2.4)	0.0 (5.5)	3.1 (3.7)	Northeast	0.0 (0.9)	0.0 (3.8)	0.0 (2.8)
North Central	0.9 (2.0)	0.0 (5.3)	4.5 (3.0)	North Central	0.0 (0.8)	0.0 (3.7)	0.0 (2.7)
South	1.6 (2.0)	0.0 (4.4)	0.6 (3.0)	South	0.0 (0.7)	0.0 (3.1)	0.0 (2.5)
West	0.0 (2.3)	0.0 (7.2)	2.7 (3.6)	West	0.0 (0.9)	0.0 (3.9)	0.0 (3.1)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+		Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷	No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 145
Knee Procedures
DRG(s): 221, 222

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+	Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (1.9)	0.0 (4.8)	2.4 (3.3)	U.S.	0.0 (0.5)	0.0 (2.6)	0.0 (2.1)
Northeast	0.0 (3.5)	0.0 (12.9)	0.0 (8.5)	Northeast	0.0 (0.8)	0.0 (5.3)	0.0 (4.4)
North Central	0.0 (4.2)	0.0 (10.7)	3.0 (6.5)	North Central	0.0 (1.1)	0.0 (5.1)	0.0 (4.4)
South	0.0 (3.7)	0.0 (6.8)	2.5 (5.4)	South	0.0 (0.8)	0.0 (4.3)	0.0 (3.5)
West	0.0 (3.8)	0.0 (11.9)	3.0 (7.6)	West	0.0 (1.0)	0.0 (6.3)	0.0 (5.6)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+		Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 146
Major Shoulder/Elbow Procedures or Other Extremity Procedures w/ CCs
DRG(s): 223

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs			Region	Without CCs		
		Age				Age	
	<65	65-69	70+		<65	65-69	70+
U.S.	0.2 (1.6)	0.0 (3.4)	0.4 (2.3)	U.S.	– (–)	– (–)	– (–)
Northeast	1.1 (3.6)	0.0 (8.2)	0.0 (5.1)	Northeast	– (–)	– (–)	– (–)
North Central	0.0 (3.0)	0.0 (6.1)	1.6 (4.7)	North Central	– (–)	– (–)	– (–)
South	0.0 (3.1)	0.0 (6.3)	0.0 (4.1)	South	– (–)	– (–)	– (–)
West	0.0 (3.1)	0.0 (7.5)	0.0 (4.7)	West	– (–)	– (–)	– (–)

ACTUAL DEATH RATES

PROVIDER

	With CCs				Without CCs		
		Age				Age	
	<65	65-69	70+		<65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 147
Shoulder, Elbow, or Forearm Procedures Except Major Joint Procedures, w/o CCs
DRG(s): 224

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	– (–)	– (–)	– (–)
Northeast	– (–)	– (–)	– (–)
North Central	– (–)	– (–)	– (–)
South	– (–)	– (–)	– (–)
West	– (–)	– (–)	– (–)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (0.5)	0.0 (2.4)	0.0 (1.8)
Northeast	0.0 (1.2)	0.0 (6.0)	0.0 (3.6)
North Central	0.0 (1.1)	0.0 (4.5)	0.0 (3.3)
South	0.0 (1.0)	0.0 (4.0)	0.0 (3.5)
West	0.0 (1.1)	0.0 (5.1)	0.0 (4.1)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 148
Foot Procedures
DRG(s): 225

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.2 (1.7)	2.6 (4.3)	0.0 (2.8)
Northeast	0.0 (3.5)	0.0 (7.8)	0.0 (5.3)
North Central	0.0 (3.3)	0.0 (8.7)	0.0 (5.1)
South	0.0 (3.0)	4.3 (7.8)	0.0 (5.5)
West	1.2 (4.1)	9.4 (11.6)	0.0 (6.9)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.6)	0.0 (1.9)	0.0 (1.6)
Northeast	0.0 (1.2)	0.0 (4.1)	0.0 (3.8)
North Central	0.1 (1.0)	0.0 (3.4)	0.0 (2.9)
South	0.0 (1.0)	0.0 (3.7)	0.0 (2.9)
West	0.0 (1.3)	0.0 (4.4)	0.0 (3.6)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 149
Soft Tissue Procedures
DRG(s): 226, 227

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+	Region	Without CCs Age <65	 65-69	 70+
U.S.	1.5 (1.6)	0.0 (4.1)	5.4 (2.9)	U.S.	0.0 (0.6)	0.0 (2.5)	0.0 (2.0)
Northeast	3.0 (3.3)	0.0 (10.2)	6.2 (5.7)	Northeast	0.0 (1.3)	0.0 (5.6)	0.0 (4.1)
North Central	1.3 (3.1)	0.0 (6.6)	0.0 (5.4)	North Central	0.0 (1.2)	0.0 (4.2)	0.0 (3.6)
South	1.1 (2.9)	0.0 (6.8)	8.5 (5.2)	South	0.0 (1.0)	0.0 (4.4)	0.0 (3.5)
West	0.4 (4.3)	0.0 (15.3)	8.5 (8.2)	West	0.0 (1.5)	0.0 (7.3)	0.0 (5.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+		Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷	No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 150
Major Thumb or Joint Procedures, or Other Hand or Wrist Procedures w/ CCs
DRG(s): 228

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	0.6 (2.1)	2.0 (5.3)	3.7 (4.2)
Northeast	1.5 (4.7)	0.0 (13.0)	0.1 (9.1)
North Central	1.0 (3.8)	6.0 (9.2)	5.3 (8.8)
South	0.0 (3.8)	0.0 (9.4)	7.1 (7.1)
West	0.0 (4.5)	0.0 (12.9)	0.0 (9.1)

Region	Without CCs Age <65	65-69	70+
U.S.	– (–)	– (–)	– (–)
Northeast	– (–)	– (–)	– (–)
North Central	– (–)	– (–)	– (–)
South	– (–)	– (–)	– (–)
West	– (–)	– (–)	– (–)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 151
Hand or Wrist Procedures Except Major Joint Procedures w/o CCs
DRG(s): 229

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+	Region	Without CCs Age <65	 65-69	 70+
U.S.	– (–)	– (–)	– (–)	U.S.	0.0 (0.6)	0.0 (2.9)	0.0 (2.7)
Northeast	– (–)	– (–)	– (–)	Northeast	0.0 (1.4)	0.0 (6.2)	0.0 (6.0)
North Central	– (–)	– (–)	– (–)	North Central	0.0 (1.2)	0.0 (5.7)	0.0 (4.9)
South	– (–)	– (–)	– (–)	South	0.0 (1.2)	0.0 (5.0)	0.0 (5.0)
West	– (–)	– (–)	– (–)	West	0.0 (1.4)	0.0 (7.2)	0.0 (6.4)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+		Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 152
Local Excision & Removal of Int Fix Devices of Hip & Femur
DRG(s): 230

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (3.6)	5.0 (8.5)	0.0 (4.1)
Northeast	0.0 (7.4)	0.0 (16.1)	0.0 (10.7)
North Central	0.0 (8.0)	0.0 (15.4)	0.0 (7.0)
South	0.0 (5.9)	22.5 (17.9)	0.0 (7.3)
West	0.0 (8.7)	0.0 (19.1)	0.0 (9.2)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.1)	0.0 (5.1)	0.0 (3.1)
Northeast	0.0 (2.4)	0.0 (13.2)	0.0 (6.1)
North Central	0.0 (2.4)	0.0 (13.4)	0.0 (5.5)
South	0.0 (1.8)	0.0 (6.9)	0.0 (5.6)
West	0.0 (2.6)	0.0 (13.4)	0.0 (8.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 153
Local Excision & Removal of Int Fix Devices Except Hip & Femur
DRG(s): 231

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	0.7 (1.7)	1.3 (4.2)	2.5 (2.9)
Northeast	1.0 (3.8)	2.3 (9.8)	2.5 (5.9)
North Central	0.0 (3.5)	4.2 (9.2)	6.9 (6.4)
South	1.5 (3.0)	0.0 (6.7)	0.0 (4.7)
West	0.0 (3.7)	0.0 (9.3)	3.0 (6.6)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (0.5)	0.0 (2.4)	0.0 (2.1)
Northeast	0.0 (1.1)	0.0 (4.7)	0.0 (4.5)
North Central	0.0 (1.1)	0.0 (4.6)	0.0 (4.5)
South	0.0 (0.9)	0.0 (4.3)	0.0 (3.2)
West	0.0 (1.3)	0.0 (6.4)	0.0 (5.1)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 154
Arthroscopy
DRG(s): 232

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
X
(% ERROR)

Region	With CCs Age <65	 65-69	 70+	Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (5.7)	0.0 (37.0)	0.0 (10.4)	U.S.	0.0 (1.5)	0.0 (8.3)	0.0 (8.0)
Northeast	0.0 (9.6)	- (-)	0.0 (13.8)	Northeast	0.0 (2.4)	0.0 (12.3)	0.0 (10.3)
North Central	0.0 (13.1)	0.0 (37.0)	0.0 (17.3)	North Central	0.0 (4.2)	0.0 (15.4)	0.0 (27.0)
South	0.0 (10.0)	- (-)	- (-)	South	0.0 (2.4)	0.0 (35.0)	0.0 (16.8)
West	0.0 (16.1)	- (-)	0.0 (43.4)	West	0.0 (4.4)	0.0 (19.0)	0.0 (26.7)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+		Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷	No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 155
Other Musculoskeletal System & Conn. Tissue O.R. Procedures
DRG(s): 233, 234

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+	Region	Without CCs Age <65	65-69	70+
U.S.	2.5 (1.7)	2.5 (4.2)	6.0 (2.2)	U.S.	0.0 (0.8)	0.0 (3.1)	0.3 (2.0)
Northeast	3.8 (3.7)	14.3 (10.7)	13.2 (4.7)	Northeast	0.0 (1.8)	0.0 (7.2)	0.0 (4.2)
North Central	2.9 (3.2)	1.0 (8.2)	0.3 (4.5)	North Central	0.0 (1.6)	0.0 (6.3)	0.9 (3.6)
South	1.3 (2.9)	0.0 (7.1)	3.6 (3.5)	South	0.0 (1.2)	0.0 (4.6)	0.0 (3.4)
West	2.9 (3.8)	0.0 (9.0)	10.7 (5.5)	West	0.0 (1.8)	0.0 (8.5)	0.0 (5.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+		Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 156
Fractures of Femur
DRG(s): 235

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.7 (2.9)	5.8 (8.5)	10.0 (2.6)
Northeast	0.0 (6.5)	0.0 (26.3)	6.0 (5.6)
North Central	0.0 (5.3)	0.0 (16.6)	13.5 (4.4)
South	0.0 (5.1)	12.3 (12.4)	9.6 (5.4)
West	3.7 (6.6)	0.0 (21.0)	8.5 (6.3)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.4)	0.0 (8.2)	2.2 (2.8)
Northeast	0.0 (3.3)	0.0 (37.8)	0.0 (6.5)
North Central	0.0 (2.8)	0.0 (13.2)	0.0 (5.8)
South	0.0 (2.3)	0.0 (12.5)	0.0 (4.2)
West	0.0 (3.2)	0.0 (22.0)	16.7 (7.9)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 157
Fractures of Hip & Pelvis
DRG(s): 236

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	1.2 (1.5)	7.1 (3.2)	8.9 (1.0)
Northeast	0.8 (3.4)	6.9 (6.8)	11.4 (2.0)
North Central	2.0 (3.1)	9.0 (6.4)	7.2 (1.9)
South	1.0 (2.7)	8.1 (5.9)	9.2 (1.7)
West	1.0 (3.4)	3.5 (7.0)	7.4 (2.4)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (1.3)	0.0 (3.3)	0.7 (1.1)
Northeast	0.0 (2.9)	0.0 (5.7)	0.7 (2.3)
North Central	0.0 (2.6)	0.0 (6.9)	0.3 (2.2)
South	0.0 (2.2)	0.0 (6.8)	0.5 (2.0)
West	0.0 (3.1)	0.0 (7.8)	1.7 (2.9)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 158
Sprains, Strains, & Dislocations of Hip, Pelvis, & Thigh
DRG(s): 237

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (4.3)	0.0 (13.6)	0.0 (5.3)
Northeast	0.0 (10.4)	- (-)	0.0 (10.7)
North Central	0.0 (7.7)	- (-)	0.0 (13.9)
South	0.0 (7.3)	0.0 (17.0)	0.0 (7.4)
West	0.0 (10.8)	0.0 (25.6)	0.0 (15.5)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (2.6)	0.0 (9.9)	1.6 (4.2)
Northeast	0.0 (6.2)	0.0 (34.5)	0.0 (7.5)
North Central	0.0 (5.0)	0.0 (37.8)	7.3 (10.0)
South	0.0 (4.1)	0.0 (11.3)	0.0 (7.9)
West	0.0 (5.8)	0.0 (37.8)	1.5 (8.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 159
Osteomyelitis
DRG(s): 238

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
U.S.	1.0 (2.3)	3.7 (4.9)	2.0 (3.1)
Northeast	3.6 (4.4)	4.8 (7.7)	0.1 (6.1)
North Central	0.0 (4.5)	6.0 (9.4)	6.4 (5.6)
South	0.0 (4.3)	0.0 (9.6)	0.0 (5.7)
West	0.0 (5.7)	0.0 (24.1)	0.0 (8.7)

Region	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	0.0 (2.1)	0.0 (8.8)	0.0 (4.9)
Northeast	0.0 (4.8)	0.0 (16.2)	0.0 (10.1)
North Central	0.0 (4.0)	0.0 (24.5)	0.0 (8.9)
South	0.0 (3.6)	0.0 (18.0)	0.0 (8.5)
West	0.0 (4.3)	0.0 (15.1)	0.0 (13.0)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 160
Path Fractures & Musculoskeletal & Conn. Tissue Malignancy
DRG(s): 239

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	20.7 (1.1)	15.6 (1.6)	12.9 (0.8)
Northeast	22.4 (2.2)	19.1 (3.3)	15.8 (1.6)
North Central	19.7 (2.0)	18.8 (3.1)	15.4 (1.5)
South	21.7 (1.9)	10.7 (2.5)	10.3 (1.5)
West	17.9 (2.8)	17.1 (4.4)	9.9 (1.8)

Region	Without CCs Age <65	 65-69	 70+
U.S.	4.1 (1.4)	5.4 (2.5)	2.6 (1.1)
Northeast	2.8 (3.3)	1.9 (5.2)	2.7 (2.3)
North Central	4.1 (3.1)	6.7 (4.7)	1.5 (2.0)
South	4.3 (2.0)	7.1 (4.6)	3.8 (1.9)
West	5.4 (3.6)	4.8 (5.9)	1.7 (2.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 161
Connective Tissue Disorders
DRG(s): 240, 241

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	4.0 (1.2)	1.8 (2.9)	6.0 (1.8)
Northeast	1.5 (2.6)	0.0 (6.2)	7.6 (3.7)
North Central	6.1 (2.6)	0.0 (5.4)	5.0 (3.2)
South	3.9 (1.9)	3.3 (4.8)	5.5 (3.0)
West	5.0 (3.3)	4.1 (7.7)	7.2 (5.1)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.3 (1.0)	0.9 (3.5)	0.3 (2.2)
Northeast	0.4 (2.4)	0.0 (9.1)	0.0 (5.4)
North Central	0.3 (2.0)	0.0 (7.3)	1.1 (3.9)
South	0.4 (1.6)	1.7 (4.9)	0.0 (3.3)
West	0.0 (3.3)	0.0 (10.5)	0.0 (7.1)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 162
Septic Arthritis
DRG(s): 242

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs			Region	Without CCs		
	Age				Age		
	<65	65-69	70+		<65	65-69	70+
U.S.	**0.9** (3.6)	**0.0** (7.3)	**6.2** (5.1)	U.S.	**0.0** (2.2)	**0.0** (8.1)	**0.0** (6.0)
Northeast	**3.8** (7.5)	**0.0** (16.3)	**0.0** (8.6)	Northeast	**0.0** (5.7)	**0.0** (13.8)	**0.0** (13.3)
North Central	**0.0** (6.7)	**0.0** (14.6)	**33.4** (11.7)	North Central	**0.0** (4.6)	**0.0** (22.1)	**0.0** (14.8)
South	**0.0** (6.8)	**0.0** (11.9)	**0.0** (8.9)	South	**0.0** (3.4)	**0.0** (13.4)	**0.0** (8.9)
West	**0.0** (7.9)	**0.0** (17.5)	**0.0** (13.0)	West	**0.0** (5.0)	**0.0** (20.6)	**0.0** (14.7)

ACTUAL DEATH RATES

PROVIDER

	With CCs				Without CCs		
	Age				Age		
	<65	65-69	70+		<65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷	No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 163
Medical Back Problems
DRG(s): 243

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	0.4 (0.5)	0.9 (1.3)	2.1 (0.6)
Northeast	0.7 (1.2)	0.0 (3.3)	4.0 (1.5)
North Central	0.2 (0.9)	1.5 (2.3)	1.4 (1.2)
South	0.4 (0.8)	0.5 (2.0)	2.1 (1.1)
West	0.5 (1.2)	1.7 (3.3)	1.1 (1.5)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (0.2)	0.0 (0.9)	0.0 (0.6)
Northeast	0.0 (0.5)	0.0 (2.3)	0.0 (1.3)
North Central	0.0 (0.4)	0.0 (1.6)	0.0 (1.2)
South	0.0 (0.3)	0.0 (1.4)	0.0 (1.0)
West	0.0 (0.5)	0.0 (2.0)	0.1 (1.4)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 164
Bone Diseases & Specific Arthropathies
DRG(s): 244, 245

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age		
	<65	65-69	70+
U.S.	0.0 (2.2)	0.8 (3.4)	1.7 (1.4)
Northeast	0.0 (4.8)	0.0 (8.3)	2.9 (3.2)
North Central	0.0 (4.2)	0.0 (6.1)	1.4 (2.6)
South	0.0 (3.4)	2.2 (5.6)	1.5 (2.4)
West	0.0 (6.6)	0.0 (8.7)	1.2 (4.1)

Region	Without CCs Age		
	<65	65-69	70+
U.S.	0.0 (1.4)	0.0 (3.1)	0.2 (1.6)
Northeast	0.0 (3.3)	0.0 (6.7)	0.0 (3.8)
North Central	0.0 (2.8)	0.0 (6.0)	0.0 (3.1)
South	0.0 (2.0)	0.0 (4.6)	0.0 (2.4)
West	0.0 (4.5)	0.0 (12.4)	1.4 (4.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age		
	<65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age		
	<65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 165
Nonspecific Arthropathies
DRG(s): 246

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	0.0 (4.4)	0.0 (9.7)	3.7 (4.4)
Northeast	0.0 (10.1)	0.0 (37.8)	0.0 (9.2)
North Central	0.0 (7.8)	0.0 (24.5)	0.0 (9.1)
South	0.0 (6.6)	0.0 (12.0)	6.9 (7.3)
West	0.0 (17.6)	0.0 (28.5)	6.5 (9.8)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (2.5)	0.0 (8.4)	0.0 (4.2)
Northeast	0.0 (6.0)	0.0 (21.7)	0.0 (11.8)
North Central	0.0 (5.1)	0.0 (17.3)	0.0 (8.6)
South	0.0 (3.7)	0.0 (12.5)	0.0 (6.6)
West	0.0 (7.7)	0.0 (21.2)	0.0 (9.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 166
Signs & Symptoms of Musculoskeletal System & Conn. Tissue
DRG(s): 247

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+	Region	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	0.4 (1.7)	0.0 (4.3)	1.4 (2.4)	U.S.	0.0 (0.8)	0.0 (3.5)	0.3 (2.2)
Northeast	0.0 (5.0)	0.0 (10.7)	0.0 (6.2)	Northeast	0.0 (2.5)	0.0 (10.4)	0.0 (5.4)
North Central	1.4 (3.2)	0.0 (7.5)	3.3 (4.3)	North Central	0.0 (1.6)	0.0 (6.0)	0.0 (4.0)
South	0.0 (2.4)	0.0 (7.6)	0.0 (4.0)	South	0.0 (1.2)	0.0 (5.6)	0.0 (3.9)
West	0.0 (4.8)	0.0 (9.3)	2.4 (5.8)	West	0.0 (2.5)	0.0 (8.5)	1.5 (4.6)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+		Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 167
Tendonitis, Myositis, & Bursitis
DRG(s): 248

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (1.9)	1.8 (5.1)	4.7 (3.1)
Northeast	0.0 (4.5)	0.0 (8.1)	9.1 (7.5)
North Central	0.0 (3.6)	8.4 (11.0)	3.6 (5.2)
South	0.0 (3.1)	0.0 (9.9)	5.1 (5.3)
West	0.0 (5.3)	0.0 (14.4)	0.0 (8.9)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.1)	0.0 (4.5)	0.0 (3.1)
Northeast	0.0 (2.5)	0.0 (9.3)	0.0 (7.7)
North Central	0.0 (2.1)	0.0 (7.4)	0.0 (5.8)
South	0.0 (1.7)	0.0 (7.6)	0.0 (5.1)
West	0.0 (3.1)	0.0 (18.4)	0.0 (6.9)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 168
Aftercare, Musculoskeletal System & Connective Tissue
DRG(s): 249

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	0.0 (4.4)	7.6 (9.8)	2.7 (3.7)	0.0 (2.3)	0.0 (5.0)	0.0 (2.6)
Northeast	0.0 (8.4)	0.0 (24.9)	11.0 (12.5)	0.0 (5.2)	0.0 (10.2)	0.0 (7.1)
North Central	0.0 (10.0)	21.9 (18.8)	2.7 (6.3)	0.0 (4.8)	0.0 (9.9)	0.0 (5.0)
South	0.0 (6.9)	0.0 (14.1)	2.5 (6.1)	0.0 (3.7)	0.0 (9.1)	0.0 (4.5)
West	0.0 (12.0)	19.2 (34.0)	0.0 (8.0)	0.0 (5.2)	0.0 (11.3)	0.0 (5.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died ÷ Total No. Patients	÷	÷	÷	÷	÷	÷
	=	=	=	=	=	=
% Patients Who Died						

DRG CLUSTER: 169
Fx., Sprns., Strns., & Disl. of Forearm, Hand, Foot
DRG: 250, 251, 252

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (2.2)	0.0 (5.0)	0.4 (2.4)
Northeast	0.0 (5.1)	0.0 (11.5)	0.0 (5.2)
North Central	0.0 (4.1)	0.0 (9.4)	0.0 (4.3)
South	0.0 (3.4)	0.0 (8.2)	1.2 (4.2)
West	0.0 (5.9)	0.0 (13.3)	0.0 (6.7)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.8)	0.0 (3.8)	0.0 (2.0)
Northeast	0.0 (1.8)	0.0 (8.7)	0.0 (4.5)
North Central	0.0 (1.5)	0.0 (6.9)	0.0 (3.7)
South	0.0 (1.2)	0.0 (6.6)	0.0 (3.3)
West	0.0 (2.1)	0.0 (8.7)	0.0 (5.4)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 170
Fx., Strns., & Disl. of Up Arm, Low Leg, Except Foot
DRG(s): 253, 254, 255

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+	Region	Without CCs Age <65	65-69	70+
U.S.	0.5 (1.2)	1.2 (3.0)	2.9 (1.2)	U.S.	0.0 (0.6)	0.0 (2.2)	0.2 (1.1)
Northeast	0.0 (2.6)	0.0 (7.3)	3.0 (2.7)	Northeast	0.0 (1.2)	0.0 (4.4)	0.4 (2.4)
North Central	0.8 (2.3)	0.0 (4.9)	4.2 (2.3)	North Central	0.0 (1.1)	0.0 (4.3)	0.0 (2.1)
South	0.7 (2.0)	0.0 (5.4)	2.5 (2.2)	South	0.0 (0.9)	0.0 (3.8)	0.4 (1.9)
West	0.0 (3.0)	8.6 (7.9)	1.0 (3.2)	West	0.0 (1.4)	0.0 (6.3)	0.0 (2.8)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+		Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 171
Other Dxs of Musculoskeletal System & Conn. Tiss.
DRG(s): 256

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.7 (1.8)	0.0 (4.2)	3.0 (2.5)
Northeast	2.4 (4.0)	0.0 (9.9)	1.5 (5.0)
North Central	0.0 (3.2)	0.0 (7.5)	1.8 (5.0)
South	0.6 (2.8)	0.0 (7.2)	1.5 (3.9)
West	0.0 (5.1)	0.0 (10.4)	13.3 (7.0)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.1 (1.0)	0.0 (4.0)	0.0 (2.6)
Northeast	0.0 (2.4)	0.0 (9.5)	0.0 (5.7)
North Central	0.0 (2.0)	0.0 (8.2)	0.0 (4.9)
South	0.2 (1.5)	0.0 (5.6)	0.0 (4.4)
West	0.6 (2.9)	0.0 (13.3)	0.0 (6.1)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 172
Total Mastectomy for Malignancy
DRG(s): 257, 258

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs			Region	Without CCs		
	Age				Age		
	<65	65-69	70+		<65	65-69	70+
U.S.	**0.1** (1.0)	**0.0** (1.7)	**0.3** (1.0)	U.S.	**0.0** (0.7)	**0.0** (1.5)	**0.0** (1.0)
Northeast	**0.0** (2.0)	**0.0** (3.3)	**0.4** (2.3)	Northeast	**0.0** (1.7)	**0.0** (3.3)	**0.0** (2.2)
North Central	**0.2** (1.8)	**0.0** (3.0)	**0.6** (2.1)	North Central	**0.0** (1.5)	**0.0** (3.1)	**0.0** (2.0)
South	**0.2** (1.7)	**0.0** (3.3)	**0.2** (1.7)	South	**0.0** (1.2)	**0.0** (2.6)	**0.0** (1.7)
West	**0.0** (2.2)	**0.0** (3.8)	**0.0** (2.6)	West	**0.0** (1.6)	**0.0** (3.0)	**0.0** (2.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs				Without CCs		
	Age				Age		
	<65	65-69	70+		<65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷	No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 173
Subtotal Mastectomy for Malignancy
DRG(s): 259, 260

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (2.4)	1.1 (4.0)	3.9 (2.4)
Northeast	0.0 (3.8)	0.0 (6.2)	3.3 (3.9)
North Central	0.0 (4.6)	0.0 (9.6)	1.9 (5.1)
South	0.0 (5.1)	0.0 (8.6)	7.5 (4.3)
West	0.0 (6.7)	6.0 (9.3)	0.0 (7.3)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.5)	0.0 (3.6)	0.0 (2.3)
Northeast	0.0 (2.7)	0.0 (5.6)	0.0 (3.5)
North Central	0.0 (3.3)	0.0 (8.5)	0.0 (5.3)
South	0.0 (2.9)	0.0 (7.5)	0.0 (4.7)
West	0.0 (3.6)	0.0 (8.1)	0.0 (5.7)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 174
Breast Procedures for Non-Malignancy Except Biopsy & Loc. Excision
DRG(s): 261

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.3 (2.2)	0.0 (6.2)	2.0 (5.4)
Northeast	0.0 (4.6)	0.0 (13.2)	0.0 (11.4)
North Central	1.9 (5.2)	0.0 (16.8)	0.0 (10.2)
South	0.0 (3.6)	0.0 (9.9)	0.0 (9.8)
West	0.0 (4.5)	0.0 (12.2)	9.9 (11.9)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.7)	0.0 (2.9)	0.0 (3.1)
Northeast	0.0 (1.4)	0.0 (6.2)	0.0 (5.8)
North Central	0.0 (1.4)	0.0 (7.1)	0.0 (7.4)
South	0.0 (1.1)	0.0 (4.4)	0.0 (4.9)
West	0.0 (1.6)	0.0 (6.4)	0.0 (8.5)

ACTUAL DEATH RATES

PROVIDER

With CCs

	<65	Age 65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

Without CCs

	<65	Age 65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 175
Breast Biopsy & Local Excision for Non-Malignancy
DRG(s): 262

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (2.7)	2.9 (6.4)	0.0 (5.3)
Northeast	0.0 (6.1)	0.0 (12.4)	0.0 (8.9)
North Central	0.0 (5.3)	8.4 (11.0)	0.0 (16.7)
South	0.0 (3.9)	0.0 (11.4)	0.0 (8.1)
West	0.0 (8.8)	0.0 (23.0)	0.0 (17.1)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.0)	0.0 (3.2)	0.0 (2.7)
Northeast	0.0 (1.8)	0.0 (6.3)	0.0 (4.8)
North Central	0.0 (2.5)	0.0 (7.8)	0.0 (6.9)
South	0.0 (1.3)	0.0 (4.6)	0.0 (3.8)
West	0.0 (3.7)	0.0 (10.1)	0.0 (10.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 176
Skin Grafts and/or Debridement for Skin Ulcer or Cellulitis
DRG(s): 263, 264

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	1.4 (1.1)	7.9 (2.4)	11.7 (1.1)
Northeast	2.5 (2.4)	9.8 (5.2)	11.8 (2.0)
North Central	1.4 (2.2)	10.0 (4.4)	11.7 (2.0)
South	1.1 (1.9)	7.2 (4.0)	12.5 (1.9)
West	0.6 (2.9)	2.6 (6.2)	9.2 (2.9)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.3)	0.9 (3.7)	0.3 (1.8)
Northeast	0.0 (2.8)	0.0 (10.0)	0.0 (3.8)
North Central	0.0 (2.8)	0.0 (6.4)	0.0 (3.6)
South	0.0 (2.3)	2.7 (6.3)	0.8 (2.8)
West	0.0 (3.3)	0.0 (8.0)	0.0 (5.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 177
Skin Graft &/or Debridement Except for Skin Ulcer or Cellulitis
DRG(s): 265, 266

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.4 (1.5)	0.0 (3.8)	1.7 (2.1)
Northeast	2.0 (3.2)	0.0 (7.1)	3.0 (4.1)
North Central	0.0 (2.8)	0.0 (7.4)	2.2 (4.2)
South	0.1 (2.4)	0.0 (6.7)	0.0 (3.5)
West	0.0 (3.8)	0.0 (11.6)	2.9 (5.9)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.1 (0.7)	0.0 (3.2)	0.0 (1.9)
Northeast	0.0 (1.7)	0.0 (5.1)	0.0 (3.4)
North Central	0.0 (1.5)	0.0 (7.1)	0.0 (4.8)
South	0.2 (1.2)	0.0 (5.7)	0.0 (2.9)
West	0.0 (1.9)	0.0 (9.7)	0.0 (5.0)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 178
Perianal & Pilonidal Procedures
DRG(s): 267

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (3.3)	0.0 (15.0)	0.0 (12.9)
Northeast	0.0 (5.3)	0.0 (21.5)	0.0 (18.4)
North Central	0.0 (7.3)	0.0 (26.7)	0.0 (21.0)
South	0.0 (5.6)	0.0 (34.2)	0.0 (35.5)
West	0.0 (11.9)	– (–)	– (–)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.9)	0.0 (12.6)	0.0 (11.5)
Northeast	0.0 (1.5)	0.0 (38.6)	– (–)
North Central	0.0 (2.0)	0.0 (29.5)	0.0 (25.6)
South	0.0 (1.6)	0.0 (14.9)	0.0 (16.7)
West	0.0 (3.5)	– (–)	0.0 (20.4)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 179
Skin, Subcutaneous Tiss. & Breast Plastic Procedures
DRG(s): 268

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (3.0)	0.0 (11.0)	4.6 (5.8)
Northeast	0.0 (6.0)	0.0 (15.9)	0.0 (11.8)
North Central	0.0 (6.8)	0.0 (20.9)	0.0 (14.8)
South	0.0 (4.7)	0.0 (25.9)	9.3 (8.3)
West	0.0 (7.6)	0.0 (41.5)	0.0 (18.0)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.3)	0.0 (4.3)	1.4 (3.6)
Northeast	0.0 (2.2)	0.0 (6.3)	4.1 (6.3)
North Central	0.0 (2.5)	0.0 (10.4)	0.0 (7.9)
South	0.0 (2.2)	0.0 (8.3)	0.0 (6.2)
West	0.0 (3.8)	0.0 (15.6)	0.0 (10.4)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 180
Other Skin, Subcut. Tiss. & Breast O.R. Procedures
DRG(s): 269, 270

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs			Region	Without CCs		
	Age				Age		
	<65	65-69	70+		<65	65-69	70+
U.S.	1.4 (1.2)	1.5 (3.3)	5.4 (1.8)	U.S.	0.1 (0.7)	0.0 (2.9)	0.0 (2.1)
Northeast	0.4 (2.5)	5.2 (8.6)	5.4 (3.9)	Northeast	0.1 (1.5)	0.0 (4.8)	0.0 (4.1)
North Central	2.2 (2.3)	3.2 (6.9)	7.6 (3.8)	North Central	0.1 (1.4)	0.0 (6.1)	0.0 (4.1)
South	1.2 (1.9)	0.0 (4.7)	4.6 (2.7)	South	0.1 (1.1)	0.0 (6.0)	0.0 (3.5)
West	2.0 (3.3)	0.0 (9.6)	4.5 (5.4)	West	0.0 (1.9)	0.0 (7.0)	0.0 (6.7)

ACTUAL DEATH RATES

PROVIDER

	With CCs				Without CCs		
	Age				Age		
	<65	65-69	70+		<65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷	No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 181
Skin Ulcers
DRG(s): 271

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+	Region	Without CCs Age <65	 65-69	 70+
U.S.	2.6 (1.7)	3.4 (3.0)	11.8 (1.3)	U.S.	0.6 (3.0)	0.0 (7.1)	1.0 (2.6)
Northeast	2.8 (4.0)	4.4 (6.1)	16.8 (2.3)	Northeast	0.0 (5.4)	0.0 (17.2)	0.0 (5.5)
North Central	0.0 (2.8)	0.0 (6.2)	7.3 (2.6)	North Central	2.3 (5.8)	0.0 (12.8)	0.0 (4.9)
South	5.8 (2.9)	5.5 (4.7)	11.9 (2.2)	South	0.0 (5.6)	0.0 (11.3)	1.2 (4.2)
West	1.6 (4.8)	0.0 (10.0)	8.7 (3.6)	West	0.0 (9.0)	0.0 (20.9)	4.5 (8.0)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+		Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 182
Major Skin Disorders
DRG(s): 272, 273

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	7.6 (2.1)	4.4 (3.5)	9.1 (2.0)
Northeast	4.4 (4.8)	0.1 (8.0)	16.1 (4.0)
North Central	8.4 (3.5)	11.5 (6.4)	5.1 (3.7)
South	7.9 (3.6)	0.0 (5.4)	8.3 (3.6)
West	9.6 (5.9)	10.4 (12.2)	7.0 (5.1)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.5 (1.6)	1.6 (4.7)	0.0 (2.7)
Northeast	1.4 (3.2)	0.0 (10.0)	0.0 (8.0)
North Central	0.0 (3.0)	0.0 (11.3)	0.0 (4.5)
South	0.1 (2.7)	3.6 (7.1)	0.0 (4.3)
West	1.2 (4.7)	0.0 (11.8)	0.0 (7.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 183
Malignant Breast Disorders
DRG(s): 274, 275

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	33.6 (1.9)	35.2 (4.0)	30.2 (2.5)
Northeast	34.3 (4.0)	39.3 (6.7)	17.1 (4.9)
North Central	35.5 (3.5)	23.9 (8.0)	29.8 (4.9)
South	30.7 (3.4)	18.0 (9.2)	35.5 (4.5)
West	34.9 (4.5)	57.2 (8.7)	40.7 (6.0)

Region	Without CCs Age <65	 65-69	 70+
U.S.	14.0 (4.0)	10.0 (8.5)	21.3 (6.9)
Northeast	14.0 (12.3)	30.2 (21.2)	18.1 (11.0)
North Central	3.3 (6.9)	0.0 (26.7)	0.0 (14.1)
South	20.9 (5.7)	0.0 (11.2)	56.1 (13.8)
West	17.4 (15.8)	32.7 (21.6)	0.0 (20.7)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 184
Non-Malignant Breast Disorders
DRG(s): 276

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+	Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (4.2)	0.0 (13.6)	12.8 (7.5)	U.S.	0.0 (2.2)	0.0 (9.5)	0.0 (11.3)
Northeast	0.0 (8.7)	0.0 (17.5)	25.0 (18.9)	Northeast	0.0 (4.3)	0.0 (30.6)	0.0 (19.2)
North Central	0.0 (11.7)	0.0 (26.3)	22.5 (11.9)	North Central	0.0 (4.5)	0.0 (23.5)	0.0 (37.8)
South	0.0 (5.9)	0.0 (37.8)	0.0 (13.6)	South	0.0 (3.4)	0.0 (11.5)	0.0 (20.5)
West	0.0 (12.6)	- (-)	0.0 (19.4)	West	0.0 (6.7)	0.0 (41.5)	0.0 (22.0)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+		Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 185
Cellulitis
DRG(s): 277, 278, 279

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.7 (0.6)	0.9 (1.5)	3.1 (0.8)
Northeast	0.7 (1.3)	0.6 (2.9)	4.7 (1.5)
North Central	0.6 (1.1)	1.1 (2.8)	2.3 (1.5)
South	0.8 (1.1)	0.5 (2.7)	2.0 (1.3)
West	0.5 (1.6)	2.0 (4.0)	3.7 (2.1)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.5)	0.4 (1.9)	0.2 (1.0)
Northeast	0.0 (1.0)	0.0 (3.5)	0.3 (1.9)
North Central	0.0 (0.9)	1.6 (3.8)	0.0 (2.0)
South	0.0 (0.8)	0.0 (3.3)	0.2 (1.8)
West	0.0 (1.2)	0.0 (5.7)	0.0 (2.7)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 186
Trauma to Skin, Subcut. Tiss. & Breast
DRG(s): 280, 281, 282

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.2 (0.8)	0.7 (3.2)	2.7 (1.3)
Northeast	0.0 (2.0)	0.0 (7.9)	3.4 (2.7)
North Central	0.4 (1.6)	2.4 (6.8)	1.9 (2.4)
South	0.2 (1.3)	0.0 (4.6)	2.8 (2.2)
West	0.4 (2.2)	1.2 (8.2)	3.2 (3.3)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.1 (0.5)	0.0 (3.2)	0.6 (1.3)
Northeast	0.0 (1.2)	0.0 (7.1)	0.0 (3.1)
North Central	0.1 (1.0)	0.0 (5.6)	0.0 (2.6)
South	0.1 (0.8)	0.0 (5.5)	1.4 (2.1)
West	0.3 (1.4)	0.0 (10.0)	0.0 (3.4)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 187
Minor Skin Disorders
DRG(s): 283, 284

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	2.8 (1.5)	3.8 (3.9)	2.9 (2.1)
Northeast	1.5 (3.2)	0.0 (6.9)	1.3 (4.2)
North Central	0.6 (3.0)	6.2 (7.3)	2.2 (3.9)
South	4.5 (2.3)	7.9 (7.5)	5.6 (3.5)
West	4.0 (4.6)	0.0 (10.2)	0.0 (5.9)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.0)	0.0 (4.4)	0.6 (2.5)
Northeast	0.0 (2.6)	0.0 (9.7)	0.0 (5.1)
North Central	0.0 (2.0)	0.0 (7.4)	0.0 (5.3)
South	0.0 (1.5)	0.0 (8.4)	1.6 (4.0)
West	0.0 (3.3)	0.0 (11.1)	0.0 (6.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 188
Amputation of Lower Limb for Endocrine, Nutritional & Metabolic Disorders
DRG(s): 285

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+	Region	Without CCs Age <65	65-69	70+
U.S.	1.5 (3.3)	10.1 (5.6)	10.2 (4.0)	U.S.	0.0 (8.4)	0.0 (19.2)	- (-)
Northeast	0.0 (7.2)	0.0 (11.9)	9.1 (8.0)	Northeast	0.0 (25.0)	0.0 (27.3)	- (-)
North Central	0.0 (7.0)	9.3 (11.1)	18.6 (8.2)	North Central	0.0 (18.8)	- (-)	- (-)
South	1.8 (5.1)	10.4 (10.2)	8.5 (7.9)	South	0.0 (15.3)	0.0 (27.0)	- (-)
West	5.7 (9.1)	21.0 (12.0)	4.5 (8.2)	West	0.0 (13.7)	- (-)	- (-)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+		Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 189
Adrenal & Pituitary Procedures
DRG(s): 286

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	5.1 (3.2)	0.0 (7.5)	13.1 (4.3)
Northeast	15.2 (8.8)	0.0 (20.3)	16.1 (9.6)
North Central	5.9 (6.5)	0.0 (18.7)	16.0 (8.4)
South	4.4 (5.0)	0.0 (14.0)	11.0 (6.6)
West	0.0 (6.6)	0.0 (11.6)	9.4 (11.6)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (2.9)	0.0 (7.9)	0.0 (8.9)
Northeast	0.0 (6.9)	0.0 (27.2)	0.0 (17.0)
North Central	0.0 (6.8)	0.0 (13.2)	0.0 (23.0)
South	0.0 (4.7)	0.0 (12.0)	0.0 (11.9)
West	0.0 (5.9)	0.0 (21.8)	- (-)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 190
Skin Grafts & Wound Debridement, Endoc., Nutrit., & Meta. Disorders
DRG(s): 287

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	3.7 (2.0)	2.6 (3.5)	11.3 (2.1)
Northeast	7.3 (3.7)	5.5 (7.0)	18.4 (3.9)
North Central	1.3 (4.0)	1.5 (7.5)	11.0 (4.0)
South	3.5 (3.7)	2.0 (5.3)	8.4 (3.7)
West	1.4 (4.5)	0.0 (12.6)	4.2 (5.5)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (7.5)	0.0 (27.0)	0.0 (11.6)
Northeast	0.0 (20.3)	- (-)	0.0 (20.2)
North Central	0.0 (14.0)	0.0 (37.8)	0.0 (29.3)
South	0.0 (10.7)	0.0 (38.6)	0.0 (16.3)
West	0.0 (25.9)	- (-)	- (-)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 191
O.R. Procedures for Obesity
DRG(s): 288

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	1.2 (2.0)	[illegible].0 ([illegible].5)	18.4 (14.0)
Northeast	1.8 (4.7)	0.0 (28.0)	62.0 (25.8)
North Central	1.9 (3.7)	0.0 (21.8)	0.0 (23.9)
South	1.4 (3.9)	0.0 (37.8)	- (-)
West	0.0 (3.6)	0.0 (27.0)	0.0 (23.5)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.2)	0.0 (17.7)	0.0 (21.8)
Northeast	0.0 (2.5)	- (-)	- (-)
North Central	0.0 (2.4)	0.0 (38.6)	0.0 (26.7)
South	0.0 (2.0)	0.0 (23.4)	- (-)
West	0.0 (3.2)	0.0 (37.8)	0.0 (37.8)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 192
Parathyroid Procedures
DRG(s): 289

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (3.8)	0.0 (7.2)	3.6 (4.6)
Northeast	0.0 (10.8)	0.0 (16.5)	0.0 (12.7)
North Central	0.0 (9.2)	0.0 (17.7)	0.0 (8.3)
South	0.0 (5.2)	0.0 (9.5)	0.0 (7.5)
West	0.0 (9.1)	0.0 (25.6)	20.7 (11.1)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (2.1)	0.0 (4.2)	0.0 (3.8)
Northeast	0.0 (4.7)	0.0 (8.9)	0.0 (11.1)
North Central	0.0 (5.5)	0.0 (14.2)	0.0 (10.2)
South	0.0 (3.2)	0.0 (6.2)	0.0 (5.4)
West	0.0 (4.2)	0.0 (9.1)	0.0 (7.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 193
Thyroid Procedures
DRG(s): 290

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (1.9)	1.2 (4.2)	2.5 (3.5)
Northeast	0.0 (3.8)	7.7 (10.4)	5.1 (8.5)
North Central	0.0 (3.7)	0.0 (9.8)	0.0 (6.8)
South	0.0 (3.5)	0.0 (6.5)	2.7 (6.2)
West	0.0 (4.1)	0.0 (8.3)	3.4 (7.2)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.7)	0.0 (2.7)	0.0 (2.4)
Northeast	0.0 (1.6)	0.0 (5.8)	0.0 (5.2)
North Central	0.0 (1.5)	0.0 (5.9)	0.0 (4.7)
South	0.0 (1.2)	0.0 (4.5)	0.0 (4.0)
West	0.0 (1.6)	0.0 (6.2)	0.0 (5.8)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 194
Thyroglossal Procedures
DRG(s): 291

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (13.5)	0.0 (25.1)	0.0 (27.2)
Northeast	0.0 (31.1)	0.0 (34.5)	– (–)
North Central	0.0 (37.8)	0.0 (36.6)	0.0 (27.4)
South	0.0 (18.1)	– (–)	– (–)
West	0.0 (37.5)	– (–)	– (–)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (2.3)	0.0 (13.1)	0.0 (15.6)
Northeast	0.0 (4.6)	0.0 (37.8)	0.0 (37.8)
North Central	0.0 (5.4)	0.0 (27.0)	0.0 (38.6)
South	0.0 (3.9)	0.0 (18.1)	0.0 (37.8)
West	0.0 (5.3)	0.0 (37.8)	0.0 (22.1)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 195
Other Endocrine, Nutrit., & Meta. O.R. Procedures
DRG(s): 292, 293

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+	Region	Without CCs Age <65	65-69	70+
U.S.	6.5 (2.2)	9.6 (4.5)	16.1 (2.5)	U.S.	0.0 (3.3)	0.0 (9.4)	0.0 (5.6)
Northeast	5.8 (5.2)	0.0 (10.0)	11.1 (5.7)	Northeast	0.0 (8.1)	0.0 (21.0)	0.0 (11.1)
North Central	7.4 (4.4)	0.0 (8.5)	20.4 (4.5)	North Central	0.0 (6.8)	0.0 (18.7)	0.0 (10.5)
South	8.0 (3.4)	5.7 (9.0)	14.1 (4.3)	South	0.0 (4.6)	0.0 (17.2)	0.0 (9.7)
West	0.0 (6.7)	32.3 (9.1)	18.2 (7.0)	West	0.0 (9.7)	0.0 (18.6)	0.0 (15.6)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+		Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 196
Diabetes
DRG(s): 294, 295

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	1.3 (0.5)	2.8 (1.1)	7.0 (0.6)
Northeast	1.1 (1.1)	6.9 (2.5)	7.5 (1.4)
North Central	0.9 (0.8)	2.2 (1.9)	6.5 (1.2)
South	1.4 (0.8)	2.0 (1.7)	7.6 (1.0)
West	2.2 (1.3)	0.7 (3.1)	5.4 (1.9)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (0.4)	0.4 (1.4)	0.3 (1.0)
Northeast	0.0 (1.1)	0.0 (3.4)	0.4 (2.4)
North Central	0.0 (0.8)	0.0 (2.5)	0.5 (1.8)
South	0.0 (0.7)	1.0 (2.2)	0.3 (1.5)
West	0.1 (1.3)	0.0 (4.3)	0.0 (3.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 197
Nutritional & Misc. Metabolic Disorders
DRG: 296, 297, 298

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	5.2 (0.5)	8.9 (0.9)	10.8 (0.4)
Northeast	4.8 (1.2)	9.8 (2.1)	15.3 (0.8)
North Central	5.2 (0.9)	9.0 (1.7)	9.3 (0.7)
South	5.7 (0.8)	8.9 (1.4)	10.1 (0.6)
West	4.5 (1.3)	7.6 (2.1)	9.2 (1.0)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.3 (0.5)	0.2 (1.7)	2.6 (0.7)
Northeast	0.2 (1.3)	1.3 (4.4)	3.2 (1.7)
North Central	0.3 (1.0)	0.0 (3.2)	2.5 (1.4)
South	0.3 (0.8)	0.0 (2.7)	2.7 (1.1)
West	0.1 (1.3)	0.0 (4.4)	2.1 (1.8)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 198
Inborn Errors of Metabolism
DRG(s): 299

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	4.4 (3.1)	14.8 (14.4)	18.0 (9.9)
Northeast	0.0 (8.4)	- (-)	1.5 (29.3)
North Central	5.5 (7.8)	0.0 (37.8)	35.5 (13.9)
South	6.0 (4.5)	20.7 (17.0)	0.0 (15.9)
West	3.0 (6.6)	0.0 (38.6)	- (-)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.5 (2.7)	0.0 (11.9)	0.0 (11.0)
Northeast	0.0 (7.0)	- (-)	0.0 (20.8)
North Central	0.0 (5.6)	- (-)	0.0 (18.8)
South	0.0 (3.8)	0.0 (12.5)	0.0 (24.5)
West	3.3 (6.9)	0.0 (37.8)	0.0 (26.7)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 199
Endocrine Disorders
DRG(s): 300, 301

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	4.4 (1.4)	2.9 (2.8)	4.5 (1.6)
Northeast	10.3 (3.4)	2.0 (6.1)	6.0 (3.3)
North Central	1.9 (2.9)	2.5 (5.4)	4.2 (3.1)
South	3.1 (2.0)	3.2 (4.6)	2.9 (2.7)
West	5.9 (3.8)	4.0 (7.6)	6.6 (4.1)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.3)	1.2 (4.2)	1.1 (2.9)
Northeast	0.0 (3.2)	0.0 (7.6)	5.6 (6.6)
North Central	0.0 (2.6)	1.5 (8.7)	0.0 (5.5)
South	0.0 (1.9)	0.0 (7.0)	0.0 (4.6)
West	0.0 (3.7)	7.7 (12.4)	0.0 (7.9)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 200
Kidney Transplant
DRG(s): 302

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	4.7 (2.2)	0.0 (31.2)	0.0 (38.6)
Northeast	6.2 (7.5)	- (-)	- (-)
North Central	3.2 (5.2)	- (-)	- (-)
South	3.9 (3.0)	0.0 (31.2)	- (-)
West	8.8 (5.7)	- (-)	0.0 (38.6)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (4.2)	0.0 (38.6)	- (-)
Northeast	0.0 (16.9)	- (-)	- (-)
North Central	0.0 (8.1)	0.0 (38.6)	- (-)
South	0.0 (6.0)	- (-)	- (-)
West	0.0 (9.3)	- (-)	- (-)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 201
Kidney, Ureter, & Major Bladder Procedures for Neoplasm
DRG(s): 303

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	2.7 (1.8)	8.5 (2.7)	7.8 (1.6)
Northeast	1.4 (4.5)	9.7 (6.1)	11.2 (3.3)
North Central	5.2 (3.5)	9.4 (5.4)	8.0 (3.1)
South	3.2 (3.1)	10.1 (4.5)	6.0 (2.7)
West	0.0 (3.7)	2.3 (6.5)	6.8 (3.8)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (2.1)	0.0 (3.5)	0.0 (2.7)
Northeast	0.0 (4.8)	0.0 (7.0)	0.0 (5.2)
North Central	0.0 (4.2)	0.0 (7.9)	0.0 (5.3)
South	0.0 (3.5)	0.0 (6.0)	0.0 (4.6)
West	0.0 (4.9)	0.0 (7.6)	0.0 (6.7)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 202
Kidney, Ureter, & Major Bladder Procedures for Non-Neoplasm
DRG(s): 304, 305

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+	Region	Without CCs Age <65	 65-69	 70+
U.S.	1.2 (0.9)	5.3 (2.0)	6.6 (1.4)	U.S.	0.0 (0.7)	0.0 (2.5)	0.8 (2.0)
Northeast	1.7 (1.9)	6.4 (4.8)	10.2 (2.9)	Northeast	0.0 (1.8)	0.0 (5.3)	1.6 (4.4)
North Central	1.1 (1.8)	7.0 (4.1)	6.1 (2.8)	North Central	0.0 (1.5)	0.0 (5.7)	1.0 (4.2)
South	0.9 (1.4)	4.9 (3.3)	6.0 (2.4)	South	0.0 (1.0)	0.0 (3.8)	0.6 (3.0)
West	1.4 (2.0)	3.4 (4.2)	3.3 (3.4)	West	0.0 (1.8)	0.0 (6.5)	0.0 (5.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+		Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷	No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 203
Prostatectomy
DRG(s): 306, 307

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	1.9 (2.7)	1.2 (2.9)	2.3 (1.3)
Northeast	3.8 (5.0)	0.0 (6.3)	3.8 (2.6)
North Central	0.0 (5.6)	0.0 (5.2)	2.8 (2.5)
South	2.4 (5.0)	4.1 (5.2)	1.8 (2.5)
West	0.0 (7.0)	0.0 (6.7)	0.4 (3.2)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (2.8)	0.0 (3.4)	0.0 (1.9)
Northeast	0.0 (7.2)	0.0 (6.7)	0.0 (4.0)
North Central	0.0 (5.0)	0.0 (6.5)	0.0 (3.2)
South	0.0 (4.5)	0.0 (5.7)	0.0 (3.6)
West	0.0 (6.6)	0.0 (10.9)	0.0 (4.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 204
Minor Bladder Procedures
DRG(s): 308, 309

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+	Region	Without CCs Age <65	 65-69	 70+
U.S.	2.6 (1.8)	1.9 (3.5)	5.5 (1.6)	U.S.	0.0 (2.0)	0.0 (4.4)	0.0 (2.4)
Northeast	1.8 (3.7)	5.6 (8.2)	7.9 (3.4)	Northeast	0.0 (4.4)	0.0 (10.5)	0.0 (4.6)
North Central	2.2 (3.5)	3.6 (7.2)	3.2 (3.1)	North Central	0.0 (4.6)	0.0 (9.0)	0.0 (5.1)
South	4.6 (3.2)	0.0 (5.6)	5.0 (2.8)	South	0.0 (3.1)	0.0 (8.2)	0.0 (4.3)
West	0.0 (4.9)	0.0 (8.0)	7.4 (4.3)	West	0.0 (4.6)	0.0 (8.3)	0.0 (5.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+		Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 205
Transurethral Procedures
DRG(s): 310, 311

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+	Region	Without CCs Age <65	 65-69	 70+
U.S.	0.4 (1.0)	1.6 (1.8)	1.3 (0.9)	U.S.	0.0 (0.6)	0.0 (1.5)	0.1 (0.9)
Northeast	0.9 (2.3)	0.8 (3.6)	0.7 (1.6)	Northeast	0.0 (1.5)	0.0 (2.9)	0.3 (1.7)
North Central	0.3 (2.0)	1.0 (3.7)	1.0 (1.8)	North Central	0.0 (1.4)	0.0 (3.4)	0.0 (2.0)
South	0.2 (1.6)	3.3 (3.0)	2.1 (1.5)	South	0.0 (0.9)	0.0 (2.7)	0.2 (1.6)
West	0.5 (2.6)	0.0 (4.6)	1.3 (2.2)	West	0.0 (1.6)	0.0 (3.5)	0.0 (2.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+		Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷	No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 206
Urethral Procedures
DRG(s): 312, 313, 314

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs			Without CCs		
	Age			Age		
	<65	65-69	70+	<65	65-69	70+
U.S.	4.5 (1.3)	12.0 (2.6)	16.1 (1.6)	0.0 (1.3)	0.0 (3.9)	0.0 (2.4)
Northeast	5.3 (2.9)	10.0 (4.8)	23.9 (3.0)	0.0 (3.2)	0.0 (7.5)	0.0 (4.7)
North Central	4.6 (2.7)	12.4 (5.9)	12.1 (3.4)	0.0 (2.4)	0.0 (7.7)	0.0 (4.7)
South	4.6 (2.3)	8.1 (4.5)	13.1 (2.7)	0.0 (2.2)	0.0 (7.1)	0.0 (4.4)
West	3.5 (2.9)	24.3 (6.8)	14.7 (3.7)	0.0 (3.3)	0.0 (10.5)	0.0 (5.9)

ACTUAL DEATH RATES

PROVIDER

	With CCs			Without CCs		
	Age			Age		
	<65	65-69	70+	<65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷	÷	÷	÷
	=	=	=	=	=	=
% Patients Who Died						

DRG CLUSTER: 207
Other Kidney & Urinary Tract O.R. Procedures
DRG(s): 315

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	5.3 (1.4)	9.9 (2.8)	17.7 (1.8)
Northeast	6.0 (3.3)	8.5 (5.7)	19.0 (3.3)
North Central	7.3 (2.7)	15.5 (5.5)	21.7 (3.3)
South	4.5 (2.3)	8.5 (4.8)	10.7 (3.7)
West	3.4 (3.3)	6.7 (6.7)	17.9 (4.8)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.9)	0.0 (4.7)	0.9 (3.5)
Northeast	0.0 (4.3)	0.0 (10.1)	2.6 (7.7)
North Central	0.0 (3.8)	0.0 (10.3)	1.5 (7.5)
South	0.0 (2.9)	0.0 (7.6)	0.0 (6.2)
West	0.0 (4.7)	0.0 (10.9)	0.0 (7.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 208
Renal Failure
DRG(s): 316

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

		With CCs	
		Age	
Region	<65	65-69	70+
U.S.	11.2 (1.2)	25.0 (2.1)	30.0 (0.9)
Northeast	12.0 (2.6)	22.7 (4.5)	32.1 (2.0)
North Central	17.1 (2.7)	21.0 (4.2)	28.9 (1.7)
South	9.0 (1.8)	29.3 (3.6)	29.1 (1.4)
West	7.8 (3.5)	25.2 (5.3)	32.2 (2.4)

		Without CCs	
		Age	
Region	<65	65-69	70+
U.S.	6.5 (2.5)	10.1 (5.4)	17.9 (2.5)
Northeast	0.0 (6.5)	0.5 (10.3	11.1 (5.9)
North Central	8.3 (6.3)	9.0 (11.3)	18.0 (5.6)
South	4.5 (3.4)	19.3 (8.4)	24.4 (3.7)
West	18.6 (6.6)	0.0 (17.5)	7.5 (6.1)

ACTUAL DEATH RATES

PROVIDER

		With CCs	
		Age	
	<65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

		Without CCs	
		Age	
	<65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 209
Admit for Renal Dialysis
DRG(s): 317

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+	Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (6.0)	0.0 (10.5)	11.6 (10.9)	U.S.	0.0 (25.0)	0.0 (35.3)	– (–)
Northeast	0.0 (7.6)	0.0 (13.4)	0.0 (15.9)	Northeast	0.0 (33.3)	– (–)	– (–)
North Central	0.0 (18.4)	0.0 (35.0)	0.0 (31.4)	North Central	0.0 (37.8)	– (–)	– (–)
South	0.0 (24.9)	0.0 (19.1)	35.5 (19.0)	South	– (–)	0.0 (35.3)	– (–)
West	0.0 (13.3)	– (–)	0.0 (37.8)	West	– (–)	– (–)	– (–)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+		Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 210
Kidney & Urinary Tract Neoplasms
DRG(s): 318, 319

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	25.1 (2.2)	20.7 (4.1)	29.0 (1.8)
Northeast	25.3 (5.2)	33.8 (7.7)	36.4 (3.5)
North Central	23.3 (4.0)	25.3 (7.7)	30.7 (3.4)
South	21.6 (4.1)	4.0 (6.4)	24.3 (3.4)
West	33.7 (5.1)	65.5 (19.8)	21.4 (4.7)

Region	Without CCs Age <65	 65-69	 70+
U.S.	8.8 (3.4)	7.3 (5.8)	11.7 (3.2)
Northeast	0.0 (7.4)	0.0 (11.1)	4.7 (5.9)
North Central	3.0 (6.5)	18.8 (9.7)	21.6 (6.1)
South	10.2 (6.2)	0.0 (10.9)	6.9 (5.5)
West	23.7 (7.5)	7.1 (20.6)	19.2 (9.1)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 211
Kidney & Urinary Tract Infections
DRG(s): 320, 321, 322

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.8 (0.5)	2.4 (1.1)	6.2 (0.4)
Northeast	0.8 (1.3)	2.9 (2.6)	8.6 (1.0)
North Central	1.2 (1.0)	0.8 (2.2)	5.7 (0.9)
South	0.9 (0.8)	2.7 (1.8)	6.1 (0.7)
West	0.1 (1.4)	4.3 (3.1)	4.4 (1.2)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.4)	0.0 (1.8)	1.0 (0.8)
Northeast	0.1 (1.1)	0.0 (4.1)	1.1 (1.9)
North Central	0.0 (0.9)	0.0 (3.5)	1.5 (1.6)
South	0.0 (0.6)	0.0 (2.8)	0.9 (1.1)
West	0.0 (1.2)	0.0 (4.1)	0.5 (2.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 212
Urinary Stones, &/or ESW Lithotripsy
DRG(s): 323, 324

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.1 (0.6)	0.2 (1.9)	1.5 (1.4)
Northeast	0.0 (1.3)	0.0 (3.8)	3.4 (2.8)
North Central	0.1 (1.3)	0.0 (3.6)	1.7 (2.8)
South	0.2 (1.0)	0.6 (2.9)	0.7 (2.1)
West	0.0 (1.9)	0.0 (6.4)	0.0 (3.7)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.4)	0.0 (1.5)	0.0 (1.4)
Northeast	0.0 (0.8)	0.0 (3.4)	0.0 (2.9)
North Central	0.0 (0.8)	0.0 (3.2)	0.0 (2.8)
South	0.0 (0.6)	0.0 (2.2)	0.0 (2.2)
West	0.0 (1.1)	0.0 (4.7)	0.0 (4.0)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 213
Kidney & Urinary Tract Signs & Symptoms
DRG(s): 325, 326, 327

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	1.0 (1.5)	2.2 (3.0)	4.5 (1.3)
Northeast	0.0 (3.1)	1.6 (5.5)	6.3 (2.7)
North Central	2.5 (2.9)	6.2 (5.7)	4.5 (2.6)
South	0.4 (2.4)	0.0 (5.2)	3.9 (2.2)
West	1.2 (4.4)	0.0 (9.9)	2.3 (4.0)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.1 (1.2)	0.0 (3.9)	0.6 (1.8)
Northeast	0.0 (2.5)	0.0 (7.1)	1.1 (3.3)
North Central	0.0 (2.4)	0.0 (8.8)	0.0 (3.7)
South	0.2 (1.8)	0.0 (6.2)	0.7 (3.2)
West	0.0 (3.7)	0.0 (11.9)	0.0 (5.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 214
Urethral Stricture
DRG(s): 328, 329, 330

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (3.4)	0.0 (6.7)	1.7 (3.1)
Northeast	0.0 (7.7)	0.0 (11.4)	7.2 (6.3)
North Central	0.0 (5.8)	0.0 (14.0)	0.0 (5.6)
South	0.0 (5.4)	0.0 (11.2)	0.0 (5.2)
West	0.0 (12.6)	0.0 (27.0)	0.0 (9.3)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (3.2)	0.0 (9.5)	0.0 (5.6)
Northeast	0.0 (7.7)	0.0 (19.9)	0.0 (11.5)
North Central	0.0 (6.1)	0.0 (15.9)	0.0 (10.8)
South	0.0 (5.0)	0.0 (16.8)	0.0 (8.7)
West	0.0 (8.0)	0.0 (31.3)	0.0 (19.0)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 215
Other Kidney & Urinary Tract Dxs
DRG(s): 331, 332, 333

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	1.5 (0.9)	3.3 (1.9)	6.4 (1.0)
Northeast	1.0 (1.9)	3.9 (4.3)	5.1 (2.3)
North Central	1.7 (1.8)	3.6 (4.1)	7.6 (2.2)
South	1.5 (1.4)	2.7 (3.1)	7.0 (1.6)
West	1.8 (2.2)	3.7 (4.5)	4.7 (2.7)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.1 (1.0)	0.7 (3.2)	2.6 (1.9)
Northeast	0.0 (2.2)	0.0 (6.6)	0.9 (3.6)
North Central	0.0 (2.1)	0.0 (6.1)	3.3 (3.6)
South	0.2 (1.5)	2.2 (5.6)	2.6 (3.2)
West	0.5 (2.8)	0.0 (8.4)	4.6 (5.4)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 216
Major Male Pelvic Procedures
DRG(s): 334, 335

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
U.S.	0.7 (2.3)	0.5 (2.6)	1.6 (1.6)
Northeast	0.0 (5.3)	0.0 (6.4)	0.0 (3.3)
North Central	1.5 (4.7)	0.0 (6.2)	2.8 (3.6)
South	0.0 (3.8)	1.2 (4.1)	2.8 (2.6)
West	1.7 (5.1)	0.0 (5.3)	0.0 (3.8)

Region	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	1.1 (2.2)	0.0 (2.8)	0.0 (2.3)
Northeast	0.0 (4.8)	0.0 (6.1)	0.0 (4.6)
North Central	0.0 (4.5)	0.0 (6.1)	0.0 (5.1)
South	2.8 (3.5)	0.0 (4.8)	0.0 (4.1)
West	0.0 (5.4)	0.0 (5.9)	0.0 (4.9)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 217
Transurethral Prostatectomy
DRG(s): 336, 337

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs		
	Age		
	<65	65-69	70+
U.S.	0.4 (0.8)	0.7 (0.8)	1.0 (0.4)
Northeast	0.5 (1.8)	0.0 (1.8)	1.3 (0.9)
North Central	0.2 (1.5)	0.3 (1.6)	0.8 (0.9)
South	0.7 (1.4)	1.4 (1.3)	1.0 (0.8)
West	0.2 (1.9)	0.2 (1.8)	0.7 (1.0)

Region	Without CCs		
	Age		
	<65	65-69	70+
U.S.	0.0 (0.8)	0.0 (0.9)	0.0 (0.6)
Northeast	0.0 (1.6)	0.0 (1.8)	0.0 (1.2)
North Central	0.0 (1.5)	0.0 (1.8)	0.1 (1.1)
South	0.0 (1.3)	0.0 (1.6)	0.0 (1.0)
West	0.0 (2.0)	0.0 (2.3)	0.0 (1.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs		
	Age		
	<65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs		
	Age		
	<65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 218
Testes Procedures for Malignancy
DRG(s): 338

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	1.4 (3.2)	0.0 (3.7)	3.0 (1.8)
Northeast	0.9 (6.3)	0.0 (8.2)	5.3 (3.4)
North Central	0.0 (6.6)	0.0 (7.1)	3.1 (3.5)
South	1.5 (5.7)	0.0 (6.0)	0.7 (3.3)
West	4.1 (7.8)	0.0 (10.2)	3.1 (4.2)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.3 (2.2)	0.0 (5.0)	0.0 (2.4)
Northeast	0.0 (4.1)	0.0 (10.1)	0.0 (4.7)
North Central	0.0 (5.0)	0.0 (12.0)	0.0 (4.7)
South	1.0 (3.8)	0.0 (7.7)	0.0 (3.9)
West	0.0 (5.4)	0.0 (12.9)	0.0 (6.9)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 219
Testes Procedures for Non-Malignancy
DRG(s): 339, 340

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
U.S.	0.0 (2.6)	0.0 (5.5)	6.0 (3.6)
Northeast	0.0 (4.7)	0.0 (14.3)	0.0 (7.2)
North Central	0.0 (4.7)	0.0 (9.5)	3.4 (7.1)
South	0.0 (4.6)	0.0 (8.1)	16.1 (6.4)
West	0.0 (8.0)	0.0 (20.4)	0.0 (8.7)

Region	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	0.0 (0.7)	0.0 (3.1)	0.5 (2.7)
Northeast	0.0 (1.4)	0.0 (5.9)	0.0 (5.5)
North Central	0.0 (1.4)	0.0 (6.8)	0.0 (5.5)
South	0.0 (1.2)	0.0 (4.9)	0.0 (4.5)
West	0.0 (1.9)	0.0 (9.4)	3.7 (7.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 220
Penis Procedures
DRG(s): 341

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (1.9)	1.0 (2.7)	0.7 (1.8)
Northeast	0.0 (4.9)	0.0 (7.3)	1.5 (4.7)
North Central	0.0 (3.9)	2.1 (5.6)	0.0 (3.6)
South	0.0 (3.0)	1.4 (4.6)	1.2 (2.6)
West	0.0 (4.1)	0.0 (5.1)	0.0 (4.3)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.2)	0.0 (2.5)	0.0 (2.1)
Northeast	0.0 (2.9)	0.0 (7.6)	0.0 (5.1)
North Central	0.0 (2.7)	0.0 (5.3)	0.0 (4.4)
South	0.0 (1.8)	0.0 (4.0)	0.0 (3.5)
West	0.0 (2.8)	0.0 (5.0)	0.0 (4.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 221
Circumcision
DRG(s): 342, 343

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (3.8)	5.2 (8.7)	0.0 (6.7)
Northeast	0.0 (6.7)	0.0 (15.2)	0.0 (12.2)
North Central	0.0 (9.3)	0.0 (21.3)	0.0 (12.2)
South	0.0 (5.8)	0.0 (12.8)	0.0 (12.2)
West	0.0 (12.3)	100.0 (37.8)	0.0 (20.3)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (2.4)	0.0 (12.3)	0.0 (6.9)
Northeast	0.0 (3.8)	0.0 (16.2)	0.0 (11.7)
North Central	0.0 (5.4)	0.0 (32.1)	0.0 (26.7)
South	0.0 (3.9)	0.0 (29.8)	0.0 (9.3)
West	0.0 (10.5)	0.0 (37.8)	0.0 (33.7)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 222
Other Male Repro. System O.R. Procedures for Malignancy
DRG(s): 344

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	7.4 (4.9)	2.5 (5.9)	2.9 (3.6)
Northeast	0.0 (11.9)	12.4 (13.3)	8.1 (7.9)
North Central	8.4 (7.7)	0.0 (17.1)	0.0 (7.0)
South	14.9 (9.5)	0.0 (8.7)	1.0 (6.6)
West	0.0 (12.2)	0.0 (12.8)	3.9 (7.4)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (5.9)	0.0 (6.9)	2.0 (5.4)
Northeast	0.0 (15.8)	0.0 (14.4)	0.0 (10.7)
North Central	0.0 (14.2)	0.0 (20.1)	0.0 (14.7)
South	0.0 (8.3)	0.0 (11.9)	0.0 (10.6)
West	0.0 (14.1)	0.0 (12.1)	5.8 (9.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 223
Other Male Repro. System O.R. Procedures Except for Malignancy
DRG(s): 345

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+	Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (4.8)	0.0 (7.8)	3.2 (3.9)	U.S.	0.0 (4.5)	0.0 (7.5)	0.0 (5.5)
Northeast	0.0 (8.4)	0.0 (12.0)	0.0 (7.1)	Northeast	0.0 (10.5)	0.0 (16.8)	0.0 (10.0)
North Central	0.0 (8.1)	0.0 (22.1)	0.0 (7.4)	North Central	0.0 (17.1)	0.0 (16.6)	0.0 (9.9)
South	0.0 (11.1)	0.0 (12.7)	12.5 (7.7)	South	0.0 (5.7)	0.0 (15.2)	0.0 (11.9)
West	0.0 (12.4)	0.0 (27.9)	0.0 (9.3)	West	0.0 (13.7)	0.0 (12.7)	0.0 (13.7)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+		Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 224
Malignancy, Male Repro. System
DRG(s): 346, 347

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+	Region	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	20.4 (2.5)	14.7 (2.9)	24.2 (1.4)	U.S.	2.0 (3.1)	0.0 (4.4)	13.1 (2.7)
Northeast	24.3 (5.7)	12.4 (6.3)	22.8 (2.9)	Northeast	3.2 (6.9)	0.0 (7.9)	9.8 (6.7)
North Central	17.3 (4.8)	19.7 (5.6)	23.5 (2.7)	North Central	0.0 (7.3)	0.0 (11.2)	9.6 (5.3)
South	21.9 (4.0)	14.3 (4.5)	26.9 (2.2)	South	1.2 (4.2)	0.0 (6.5)	16.1 (4.2)
West	16.5 (7.4)	6.7 (9.8)	19.4 (3.7)	West	10.8 (12.4)	0.0 (16.1)	14.8 (7.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+		Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 225
Benign Prostatic Hypertrophy
DRG: 348, 349

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	0.5 (2.7)	3.1 (3.4)	2.3 (1.7)
Northeast	0.0 (4.7)	1.8 (6.1)	3.5 (3.5)
North Central	2.0 (5.4)	8.5 (6.2)	2.5 (3.3)
South	0.0 (4.8)	0.0 (6.7)	2.0 (2.7)
West	0.0 (7.8)	0.0 (9.6)	0.0 (5.3)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (2.5)	0.0 (3.9)	0.0 (2.8)
Northeast	0.0 (4.4)	0.0 (6.5)	0.0 (5.2)
North Central	0.0 (6.2)	0.0 (9.2)	0.0 (5.5)
South	0.0 (4.0)	0.0 (6.4)	0.0 (4.7)
West	0.0 (8.2)	0.0 (12.0)	0.0 (8.7)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 226
Inflammation of Male Repro. System
DRG(s): 350

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (1.5)	0.0 (3.5)	1.4 (2.2)
Northeast	0.0 (3.5)	0.0 (8.3)	0.0 (5.0)
North Central	0.0 (2.9)	0.0 (5.9)	0.0 (4.4)
South	0.0 (2.4)	0.0 (5.7)	2.4 (3.3)
West	0.0 (3.9)	0.0 (11.0)	2.8 (6.3)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.1)	0.0 (4.0)	0.0 (3.3)
Northeast	0.0 (2.3)	0.0 (8.4)	0.0 (6.2)
North Central	0.0 (2.1)	0.0 (9.9)	0.0 (6.3)
South	0.0 (1.6)	0.0 (5.6)	0.0 (5.6)
West	0.0 (3.5)	0.0 (12.2)	0.0 (11.0)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 227
Sterilization, Male
DRG(s): 351

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+	Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (37.8)	– (–)	– (–)	U.S.	0.0 (26.7)	– (–)	– (–)
Northeast	– (–)	– (–)	– (–)	Northeast	0.0 (37.8)	– (–)	– (–)
North Central	0.0 (38.3)	– (–)	– (–)	North Central	0.0 (37.8)	– (–)	– (–)
South	– (–)	– (–)	– (–)	South	– (–)	– (–)	– (–)
West	– (–)	– (–)	– (–)	West	– (–)	– (–)	– (–)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+		Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷	No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 228
Other Male Repro. System Dxs
DRG(s): 352

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs		
	Age		
	<65	65-69	70+
U.S.	2.1 (4.3)	0.0 (13.4)	5.8 (6.6)
Northeast	0.0 (9.9)	- (-)	7.1 (10.3)
North Central	0.0 (10.5)	- (-)	13.5 (14.2)
South	4.3 (6.2)	0.0 (16.9)	0.0 (12.1)
West	0.0 (10.9)	0.0 (21.8)	0.0 (23.1)

Region	Without CCs		
	Age		
	<65	65-69	70+
U.S.	0.0 (2.2)	0.0 (10.6)	0.0 (8.3)
Northeast	0.0 (4.9)	0.0 (17.6)	0.0 (12.8)
North Central	0.0 (4.8)	0.0 (16.7)	0.0 (15.6)
South	0.0 (3.3)	0.0 (21.8)	0.0 (16.5)
West	0.0 (6.1)	- (-)	0.0 (41.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs		
	Age		
	<65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs		
	Age		
	<65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 229
Pelvis Evisceration, Radical Hysterectomy & Radical Vulvectomy
DRG(s): 353

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	0.0 (3.3)	0.0 (7.5)	0.0 (6.1)
Northeast	0.0 (7.5)	0.0 (13.1)	0.0 (13.4)
North Central	0.0 (7.4)	0.0 (14.0)	0.0 (11.1)
South	0.0 (5.1)	0.0 (14.8)	0.0 (10.6)
West	0.0 (7.3)	0.0 (22.0)	0.0 (15.6)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (2.9)	0.0 (13.4)	0.0 (6.5)
Northeast	0.0 (6.8)	0.0 (38.6)	0.0 (10.9)
North Central	0.0 (5.4)	0.0 (15.3)	0.0 (14.4)
South	0.0 (4.8)	0.0 (38.6)	0.0 (10.3)
West	0.0 (7.6)	– (–)	0.0 (37.8)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 230
Uterine, Adnexa Procedures for Non-Ovarian/Adnexal Malignancy
DRG(s): 354, 355

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	0.9 (1.9)	1.3 (3.0)	5.1 (2.2)
Northeast	2.1 (4.1)	2.1 (5.6)	11.9 (4.4)
North Central	1.5 (3.5)	0.0 (6.7)	0.4 (4.5)
South	0.0 (3.4)	2.2 (5.2)	6.7 (4.2)
West	0.0 (4.4)	0.0 (7.1)	1.3 (4.3)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (0.9)	0.0 (2.6)	0.0 (1.9)
Northeast	0.0 (2.0)	0.0 (5.9)	0.0 (4.5)
North Central	0.0 (1.8)	0.0 (4.7)	0.0 (3.7)
South	0.0 (1.5)	0.0 (4.7)	0.0 (3.3)
West	0.0 (2.3)	0.0 (6.3)	0.0 (4.1)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 231
Female Repro. System Reconstructive Procedures
DRG(s): 356

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (1.6)	0.0 (3.0)	0.0 (2.2)
Northeast	0.0 (4.6)	0.0 (7.4)	0.0 (5.1)
North Central	0.0 (3.1)	0.0 (6.7)	0.0 (4.3)
South	0.0 (2.6)	0.0 (4.7)	0.0 (3.5)
West	0.0 (3.6)	0.0 (6.0)	0.0 (5.2)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.7)	0.0 (1.7)	0.0 (1.4)
Northeast	0.0 (1.9)	0.0 (4.4)	0.0 (3.5)
North Central	0.0 (1.4)	0.0 (3.3)	0.0 (2.8)
South	0.0 (1.1)	0.0 (2.8)	0.0 (2.3)
West	0.0 (1.6)	0.0 (3.7)	0.0 (2.9)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 232
Uterine & Adnexa Procedures for Ovarian or Adnexal Malignancy
DRG(s): 357

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
U.S.	4.3 (1.9)	1.7 (3.5)	8.0 (2.3)
Northeast	5.7 (3.4)	10.2 (8.5)	15.3 (4.6)
North Central	6.1 (4.0)	0.0 (6.8)	6.0 (4.6)
South	2.5 (3.4)	0.0 (6.0)	5.0 (4.0)
West	2.7 (4.4)	0.0 (7.0)	5.0 (6.0)

Region	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	0.0 (1.9)	0.0 (5.2)	0.0 (3.9)
Northeast	0.0 (3.6)	0.0 (10.6)	0.0 (8.3)
North Central	0.0 (3.7)	0.0 (10.3)	0.0 (8.1)
South	0.0 (3.3)	0.0 (8.3)	0.0 (6.3)
West	0.0 (4.6)	0.0 (15.0)	0.0 (10.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 233
Uterine & Adnexal Procedures for Non-Malignancy
DRG(s): 358, 359

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.1 (0.4)	0.0 (2.1)	2.0 (1.5)
Northeast	0.1 (1.0)	0.0 (5.0)	2.1 (3.2)
North Central	0.1 (0.9)	0.0 (3.9)	0.9 (2.9)
South	0.2 (0.7)	0.0 (3.4)	3.5 (2.6)
West	0.0 (1.0)	0.0 (4.9)	0.8 (3.4)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.2)	0.0 (1.3)	0.0 (1.1)
Northeast	0.0 (0.5)	0.0 (2.7)	0.0 (2.2)
North Central	0.0 (0.4)	0.0 (2.6)	0.0 (2.1)
South	0.0 (0.3)	0.0 (2.1)	0.0 (1.8)
West	0.0 (0.4)	0.0 (3.1)	0.0 (2.7)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 234
Vagina, Cervix, & Vulva Procedures
DRG(s): 360

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	0.0 (1.8)	2.5 (5.1)	11.2 (2.8)
Northeast	0.0 (3.5)	0.0 (11.6)	4.2 (6.4)
North Central	0.0 (3.9)	0.0 (9.2)	10.8 (5.7)
South	0.0 (2.9)	4.7 (8.0)	14.8 (4.1)
West	0.0 (5.1)	5.7 (16.7)	9.6 (8.5)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (0.8)	0.0 (4.2)	0.0 (2.6)
Northeast	0.0 (1.3)	0.0 (8.7)	0.0 (5.6)
North Central	0.0 ([illegible].9)	0.0 (9.3)	0.0 (5.2)
South	0.0 (1.2)	0.0 (6.1)	0.0 (3.9)
West	0.0 (2.8)	0.0 (13.9)	0.0 (9.7)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 235
Laparoscopy & Incisional Tubal Interruption
DRG(s): 361

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
U.S.	0.0 (1.9)	0.0 (20.4)	0.0 (13.3)
Northeast	0.0 (3.9)	0.0 (33.6)	0.0 (34.5)
North Central	0.0 (3.5)	0.0 (35.1)	0.0 (22.0)
South	0.0 (3.2)	0.0 (37.8)	0.0 (19.2)
West	0.0 (4.9)	– (–)	– (–)

Region	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	0.0 (0.6)	0.0 (17.9)	0.0 (14.2)
Northeast	0.0 (1.2)	0.0 (34.5)	– (–)
North Central	0.0 (1.3)	0.0 (38.6)	0.0 (19.0)
South	0.0 (1.0)	0.0 (24.8)	0.0 (25.9)
West	0.0 (1.8)	– (–)	0.0 (37.8)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 236
Endoscopic Tubal Interruption
DRG(s): 362

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	0.0 (6.5)	- (-)	- (-)
Northeast	0.0 (14.3)	- (-)	- (-)
North Central	0.0 (16.5)	- (-)	- (-)
South	0.0 (9.1)	- (-)	- (-)
West	0.0 (18.1)	- (-)	- (-)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (2.5)	- (-)	- (-)
Northeast	0.0 (5.0)	- (-)	- (-)
North Central	0.0 (8.5)	- (-)	- (-)
South	0.0 (3.4)	- (-)	- (-)
West	0.0 (8.4)	- (-)	- (-)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 237
D&C, Conization & Radio-Implant for Malignancy
DRG(s): 363

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs		
	Age		
	<65	65-69	70+
U.S.	1.0 (3.7)	2.5 (6.0)	5.5 (3.8)
Northeast	0.0 (8.2)	14.0 (14.2)	4.2 (7.8)
North Central	0.0 (7.9)	0.0 (11.0)	5.3 (7.8)
South	2.3 (5.6)	0.0 (9.6)	4.9 (5.5)
West	0.0 (10.6)	0.0 (16.3)	15.6 (15.0)

Region	Without CCs		
	Age		
	<65	65-69	70+
U.S.	0.0 (1.9)	0.0 (4.7)	0.0 (2.9)
Northeast	0.0 (4.0)	0.0 (11.0)	0.0 (6.5)
North Central	0.0 (3.7)	0.0 (9.6)	0.0 (5.7)
South	0.0 (3.1)	0.0 (6.5)	0.0 (4.4)
West	0.0 (4.6)	0.0 (19.9)	0.0 (10.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs		
	Age		
	<65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs		
	Age		
	<65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 238
D&C, Conization Except for Malignancy
DRG(s): 364

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs		
	Age		
	<65	65-69	70+
U.S.	0.0 (1.3)	0.0 (4.9)	0.0 (3.2)
Northeast	0.0 (2.7)	0.0 (11.5)	0.0 (6.5)
North Central	0.0 (2.6)	0.0 (10.5)	0.0 (6.0)
South	0.0 (2.1)	0.0 (7.3)	0.0 (5.1)
West	0.0 (3.9)	0.0 (12.0)	0.0 (11.8)

Region	Without CCs		
	Age		
	<65	65-69	70+
U.S.	0.0 (0.8)	0.0 (4.0)	0.0 (3.0)
Northeast	0.0 (1.5)	0.0 (6.7)	0.0 (6.1)
North Central	0.0 (1.7)	0.0 (8.1)	0.0 (7.1)
South	0.0 (1.1)	0.0 (6.3)	0.0 (4.2)
West	0.0 (2.8)	0.0 (25.3)	0.0 (11.4)

ACTUAL DEATH RATES

PROVIDER

	With CCs		
	Age		
	<65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs		
	Age		
	<65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 239
Other Female Repro. System O.R. Procedures
DRG(s): 365

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+	Region	Without CCs Age <65	 65-69	 70+
U.S.	3.6 (2.1)	9.9 (4.6)	8.7 (3.5)	U.S.	0.1 (1.4)	0.0 (8.1)	0.0 (7.0)
Northeast	5.7 (5.0)	21.3 (12.7)	4.5 (7.1)	Northeast	0.0 (3.3)	0.0 (15.8)	0.0 (14.0)
North Central	4.9 (4.5)	2.9 (11.1)	14.2 (6.4)	North Central	0.6 (3.0)	0.0 (16.6)	0.0 (12.1)
South	2.1 (3.4)	10.5 (6.2)	13.2 (7.0)	South	0.0 (2.2)	0.0 (16.7)	0.0 (15.2)
West	3.1 (5.0)	6.1 (11.4)	0.0 (7.9)	West	0.0 (3.4)	0.0 (15.5)	0.0 (15.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+		Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 240
Malignancy, Female Repro. System
DRG(s): 366, 367

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	29.6 (1.9)	33.3 (3.5)	33.7 (2.1)
Northeast	29.1 (4.6)	49.2 (8.1)	45.2 (4.4)
North Central	32.0 (3.6)	41.4 (6.8)	27.8 (4.1)
South	29.6 (2.8)	22.2 (5.4)	33.3 (3.3)
West	25.3 (5.2)	30.0 (10.2)	26.8 (5.7)

Region	Without CCs Age <65	 65-69	 70+
U.S.	7.7 (2.3)	16.4 (4.9)	15.9 (3.8)
Northeast	2.4 (5.8)	16.0 (10.4)	5.3 (8.7)
North Central	12.0 (5.4)	51.9 (13.7)	17.8 (7.2)
South	7.8 (3.0)	9.5 (6.3)	20.1 (6.0)
West	8.0 (7.2)	0.0 (37.8)	14.5 (10.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 241
Infections, Female Repro. System
DRG(s): 368

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (1.1)	7.1 (10.2)	3.5 (7.0)
Northeast	0.0 (2.6)	0.7 (20.8)	0.0 (11.9)
North Central	0.0 (2.1)	18.0 (16.5)	0.0 (13.3)
South	0.0 (1.7)	0.0 (21.1)	0.0 (13.6)
West	0.0 (2.9)	0.0 (27.0)	33.9 (22.0)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.6)	0.0 (27.0)	0.0 (11.0)
Northeast	0.0 (1.2)	- (-)	0.0 (38.5)
North Central	0.0 (1.1)	- (-)	0.0 (15.9)
South	0.0 (0.9)	0.0 (37.8)	0.0 (26.4)
West	0.0 (1.5)	0.0 (38.6)	0.0 (21.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 242
Menstrual & Other Female Repro. System Disorders
DRG(s): 369

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.3 (1.4)	0.0 (6.7)	3.4 (4.0)
Northeast	0.8 (3.4)	0.0 (23.0)	0.0 (8.7)
North Central	0.2 (2.6)	0.0 (11.9)	0.0 (7.0)
South	0.0 (2.3)	0.0 (10.0)	10.2 (6.9)
West	0.6 (3.7)	0.0 (17.6)	0.0 (11.6)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.7)	0.0 (7.8)	0.0 (4.2)
Northeast	0.0 (1.4)	0.0 (29.0)	0.0 (11.4)
North Central	0.0 (1.4)	0.0 (15.5)	0.0 (8.4)
South	0.0 (1.0)	0.0 (10.9)	0.0 (7.0)
West	0.0 (1.9)	0.0 (19.6)	0.0 (8.4)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 243
Cesarean Section
DRG(s): 370, 371

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+	Region	Without CCs Age <65	 65-69	 70+
U.S.	0.1 (0.4)	– (–)	– (–)	U.S.	0.0 (0.2)	– (–)	– (–)
Northeast	0.1 (0.8)	– (–)	– (–)	Northeast	0.0 (0.4)	– (–)	– (–)
North Central	0.1 (0.8)	– (–)	– (–)	North Central	0.0 (0.4)	– (–)	– (–)
South	0.2 (0.7)	– (–)	– (–)	South	0.0 (0.3)	– (–)	– (–)
West	0.1 (0.8)	– (–)	– (–)	West	0.0 (0.4)	– (–)	– (–)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+		Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷	No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 244
Vaginal Delivery w/ Complicating Dxs
DRG(s): 372

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (0.6)	– (–)	– (–)
Northeast	0.0 (1.3)	– (–)	– (–)
North Central	0.1 (1.3)	– (–)	– (–)
South	0.0 (1.1)	– (–)	– (–)
West	0.0 (1.3)	– (–)	– (–)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.4)	– (–)	– (–)
Northeast	0.0 (0.9)	– (–)	– (–)
North Central	0.0 (0.9)	– (–)	– (–)
South	0.0 (0.8)	– (–)	– (–)
West	0.0 (0.9)	– (–)	– (–)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 245
Vaginal Delivery w/o Complicating Dxs
DRG(s): 373

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
U.S.	0.0 (0.5)	– (–)	– (–)
Northeast	0.0 (1.2)	– (–)	– (–)
North Central	0.1 (1.0)	– (–)	– (–)
South	0.0 (1.0)	– (–)	– (–)
West	0.0 (1.1)	– (–)	– (–)

Region	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	0.0 (0.1)	– (–)	– (–)
Northeast	0.0 (0.2)	– (–)	– (–)
North Central	0.0 (0.2)	– (–)	– (–)
South	0.0 (0.2)	– (–)	– (–)
West	0.0 (0.2)	– (–)	– (–)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 246
Vaginal Delivery w/ Sterilization &/or D&C
DRG(s): 374

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (1.2)	– (–)	– (–)
Northeast	0.0 (3.1)	– (–)	– (–)
North Central	0.0 (2.4)	– (–)	– (–)
South	0.0 (2.0)	– (–)	– (–)
West	0.0 (2.5)	– (–)	– (–)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.3)	– (–)	– (–)
Northeast	0.0 (0.9)	– (–)	– (–)
North Central	0.0 (0.7)	– (–)	– (–)
South	0.0 (0.5)	– (–)	– (–)
West	0.0 (0.8)	– (–)	– (–)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 247
Vaginal Delivery w/ O.R. Procedures Except Steril. &/or D&C
DRG(s): 375

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	0.0 (4.9)	– (–)	– (–)
Northeast	0.0 (10.1)	– (–)	– (–)
North Central	0.0 (8.3)	– (–)	– (–)
South	0.0 (8.9)	– (–)	– (–)
West	0.0 (14.0)	– (–)	– (–)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (1.4)	– (–)	– (–)
Northeast	0.0 (3.5)	– (–)	– (–)
North Central	0.0 (3.0)	– (–)	– (–)
South	0.0 (2.2)	– (–)	– (–)
West	0.0 (3.5)	– (–)	– (–)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 248
Postpartum & Postabortion Dxs w/o O.R. Procedures
DRG(s): 376

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.5 (2.0)	- (-)	- (-)
Northeast	0.0 (5.3)	- (-)	- (-)
North Central	1.4 (3.6)	- (-)	- (-)
South	0.0 (3.9)	- (-)	- (-)
West	0.0 (4.0)	- (-)	- (-)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.0)	- (-)	- (-)
Northeast	0.0 (2.1)	- (-)	- (-)
North Central	0.0 (1.9)	- (-)	- (-)
South	0.0 (1.7)	- (-)	- (-)
West	0.0 (2.2)	- (-)	- (-)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 249
Postpartum & Postabortion Dxs w/ O.R. Procedures
DRG(s): 377

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	0.9 (2.3)	- (-)	- (-)
Northeast	1.8 (4.8)	- (-)	- (-)
North Central	1.4 (4.2)	- (-)	- (-)
South	0.0 (4.5)	- (-)	- (-)
West	0.0 (5.1)	- (-)	- (-)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (1.5)	- (-)	- (-)
Northeast	0.0 (3.1)	- (-)	- (-)
North Central	0.0 (3.1)	- (-)	- (-)
South	0.0 (2.7)	- (-)	- (-)
West	0.0 (3.8)	- (-)	- (-)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 250
Ectopic Pregnancy
DRG(s): 378

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	0.3 (1.1)	- (-)	- (-)
Northeast	0.0 (2.4)	- (-)	- (-)
North Central	0.0 (2.3)	- (-)	- (-)
South	0.3 (2.0)	- (-)	- (-)
West	0.7 (2.2)	- (-)	- (-)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (0.6)	- (-)	- (-)
Northeast	0.0 (1.4)	- (-)	- (-)
North Central	0.0 (1.4)	- (-)	- (-)
South	0.0 (1.1)	- (-)	- (-)
West	0.0 (1.4)	- (-)	- (-)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 251
Threatened Abortion
DRG(s): 379

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+	Region	Without CCs Age <65	65-69	70+
U.S.	0.1 (1.1)	– (–)	– (–)	U.S.	0.0 (0.5)	– (–)	– (–)
Northeast	0.4 (2.5)	– (–)	– (–)	Northeast	0.0 (1.1)	– (–)	– (–)
North Central	0.0 (2.1)	– (–)	– (–)	North Central	0.0 (1.0)	– (–)	– (–)
South	0.0 (1.8)	– (–)	– (–)	South	0.0 (0.9)	– (–)	– (–)
West	0.0 (2.4)	– (–)	– (–)	West	0.0 (1.1)	– (–)	– (–)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+		Without CCs Age <65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷	No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 252
Abortion w/o D&C
DRG(s): 380

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+	Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (3.0)	– (–)	– (–)	U.S.	0.1 (1.0)	– (–)	– (–)
Northeast	0.0 (5.8)	– (–)	– (–)	Northeast	0.0 (1.8)	– (–)	– (–)
North Central	0.0 (5.3)	– (–)	– (–)	North Central	0.2 (1.8)	– (–)	– (–)
South	0.0 (5.6)	– (–)	– (–)	South	0.0 (1.9)	– (–)	– (–)
West	0.0 (9.1)	– (–)	– (–)	West	0.0 (2.9)	– (–)	– (–)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+		Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 253
Abortion w/ D&C, Aspiration Curettage, or Hysterotomy
DRG: 381

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	0.0 (1.3)	– (–)	– (–)
Northeast	0.0 (2.6)	– (–)	– (–)
North Central	0.0 (2.4)	– (–)	– (–)
South	0.0 (2.5)	– (–)	– (–)
West	0.0 (3.6)	– (–)	– (–)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (0.4)	– (–)	– (–)
Northeast	0.0 (0.8)	– (–)	– (–)
North Central	0.0 (0.9)	– (–)	– (–)
South	0.0 (0.7)	– (–)	– (–)
West	0.1 (1.3)	– (–)	– (–)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 254
False Labor
DRG(s): 382

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+	Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (2.5)	– (–)	– (–)	U.S.	0.0 (0.7)	– (–)	– (–)
Northeast	0.0 (6.1)	– (–)	– (–)	Northeast	0.0 (1.6)	– (–)	– (–)
North Central	0.0 (4.4)	– (–)	– (–)	North Central	0.0 (1.3)	– (–)	– (–)
South	0.0 (4.0)	– (–)	– (–)	South	0.0 (1.3)	– (–)	– (–)
West	0.0 (6.6)	– (–)	– (–)	West	0.0 (2.1)	– (–)	– (–)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+		Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 255
Other Antepartum Dxs w/ Medical Complications
DRG(s): 383

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+	Region	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	0.1 (0.6)	- (-)	- (-)	U.S.	0.0 (0.4)	- (-)	- (-)
Northeast	0.0 (1.3)	- (-)	- (-)	Northeast	0.0 (0.9)	- (-)	- (-)
North Central	0.0 (1.1)	- (-)	- (-)	North Central	0.0 (0.8)	- (-)	- (-)
South	0.2 (1.0)	- (-)	- (-)	South	0.0 (0.8)	- (-)	- (-)
West	0.0 (1.4)	- (-)	- (-)	West	0.0 (1.2)	- (-)	- (-)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+		Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 256
Other Antepartum Dxs w/o Medical Complications
DRG(s): 384

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (1.9)	– (–)	– (–)
Northeast	0.0 (4.3)	– (–)	– (–)
North Central	0.0 (3.4)	– (–)	– (–)
South	0.0 (3.4)	– (–)	– (–)
West	0.0 (4.3)	– (–)	– (–)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.6)	– (–)	– (–)
Northeast	0.0 (1.2)	– (–)	– (–)
North Central	0.0 (1.1)	– (–)	– (–)
South	0.0 (1.1)	– (–)	– (–)
West	0.0 (1.6)	– (–)	– (–)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

THE NEWBORN DRG CLUSTERS 257-263 (DRGs 385-391) ARE NOT INCLUDED IN THE TABLES.

DRG CLUSTER: 264
Splenectomy
DRG(s): 392, 393

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	6.2 (1.8)	12.6 (5.6)	24.2 (4.6)
Northeast	9.0 (3.8)	0.0 (19.8)	37.5 (9.3)
North Central	5.1 (3.5)	0.0 (9.6)	21.9 (8.7)
South	6.0 (3.0)	30.4 (8.8)	5.1 (8.5)
West	5.0 (4.0)	0.0 (13.9)	40.7 (10.8)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (2.0)	0.0 (13.3)	0.0 (6.9)
Northeast	0.0 (4.9)	0.0 (37.8)	0.0 (14.5)
North Central	0.0 (4.1)	0.0 (27.0)	0.0 (13.1)
South	0.0 (3.2)	0.0 (16.7)	0.0 (13.3)
West	0.0 (4.8)	– (–)	0.0 (14.6)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 265
Other O.R. Procedures of Blood & Blood Forming Organs
DRG(s): 394

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	3.6 (2.4)	6.5 (9.8)	6.2 (4.6)
Northeast	0.5 (4.5)	0.0 (19.0)	15.9 (10.3)
North Central	4.0 (5.7)	0.0 (21.7)	5.0 (8.1)
South	6.9 (3.8)	0.0 (19.5)	0.0 (8.1)
West	0.0 (6.4)	24.2 (19.0)	9.3 (11.5)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.5)	0.0 (7.1)	0.0 (5.6)
Northeast	0.0 (3.2)	0.0 (15.6)	0.0 (10.9)
North Central	0.0 (3.0)	0.0 (16.8)	0.0 (11.1)
South	0.0 (2.4)	0.0 (10.6)	0.0 (9.0)
West	0.0 (4.3)	0.0 (17.0)	0.0 (19.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 266
Red Blood Cell Disorders
DRG(s): 395, 396

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	2.0 (0.7)	3.8 (1.5)	4.3 (0.6)
Northeast	2.5 (1.5)	4.1 (2.9)	4.6 (1.2)
North Central	1.5 (1.4)	2.4 (2.9)	4.2 (1.3)
South	1.8 (1.2)	4.5 (2.4)	4.0 (1.1)
West	2.6 (2.1)	4.0 (4.4)	4.5 (1.7)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.7)	0.5 (2.7)	0.6 (1.1)
Northeast	0.0 (1.6)	0.0 (5.4)	0.3 (2.2)
North Central	0.0 (1.1)	2.4 (5.9)	0.0 (2.2)
South	0.1 (1.2)	0.0 (4.0)	1.1 (1.8)
West	0.0 (2.4)	0.0 (7.9)	0.8 (3.4)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 267
Coagulation Disorders
DRG(s): 397

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+	Region	Without CCs Age <65	 65-69	 70+
U.S.	3.4 (1.7)	11.1 (3.6)	8.1 (1.8)	U.S.	0.0 (1.5)	0.0 (7.0)	0.7 (3.3)
Northeast	2.9 (3.6)	11.3 (7.8)	3.6 (4.0)	Northeast	0.0 (3.0)	0.0 (14.3)	0.0 (6.5)
North Central	3.7 (3.3)	12.7 (7.8)	11.8 (3.6)	North Central	0.0 (3.0)	0.0 (13.2)	0.0 (7.7)
South	4.6 (2.9)	10.3 (5.5)	8.2 (3.0)	South	0.0 (2.4)	0.0 (10.7)	1.7 (5.1)
West	1.1 (4.2)	10.9 (8.8)	7.8 (4.8)	West	0.0 (3.8)	0.0 (27.9)	0.0 (9.0)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+		Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷	No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 268
Reticuloendothelial & Immunity Disorders
DRG(s): 398, 399

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

	With CCs				Without CCs		
	Age				Age		
Region	<65	65-69	70+	Region	<65	65-69	70+
U.S.	11.3 (1.1)	10.4 (2.7)	9.0 (1.7)	U.S.	2.1 (1.2)	0.0 (5.8)	0.0 (3.1)
Northeast	15.3 (1.9)	0.1 (6.4)	11.4 (3.2)	Northeast	4.6 (2.3)	0.0 (13.5)	0.0 (6.0)
North Central	9.3 (2.4)	8.5 (5.6)	10.2 (3.7)	North Central	2.0 (2.5)	0.0 (14.9)	0.0 (6.6)
South	8.8 (1.8)	16.9 (4.0)	6.1 (2.7)	South	0.6 (1.9)	0.0 (8.7)	0.0 (5.1)
West	11.2 (2.7)	6.3 (6.8)	10.3 (4.1)	West	1.6 (3.4)	0.0 (12.4)	0.0 (8.9)

ACTUAL DEATH RATES

PROVIDER

	With CCs				Without CCs		
	Age				Age		
	<65	65-69	70+		<65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷	No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 269
Lymphoma & Leukemia w/ Major O.R. Procedures
DRG(s): 400

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	14.9 (1.7)	18.8 (3.4)	17.3 (2.1)
Northeast	13.2 (3.4)	13.2 (7.8)	22.0 (3.6)
North Central	17.0 (3.4)	29.7 (7.3)	16.7 (4.2)
South	13.7 (3.1)	23.1 (5.7)	15.7 (3.9)
West	16.2 (4.1)	6.8 (7.1)	11.1 (5.3)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (1.8)	0.0 (4.9)	0.8 (3.3)
Northeast	0.0 (3.9)	0.0 (10.9)	3.7 (7.2)
North Central	0.0 (3.6)	0.0 (11.1)	0.0 (6.2)
South	0.0 (2.9)	0.0 (8.2)	0.0 (6.5)
West	0.0 (4.5)	0.0 (10.3)	0.0 (6.7)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 270
Lymphoma & Non-Acute Leukemia w/ Other O.R. Procedures
DRG(s): 401, 402

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	14.1 (2.0)	23.3 (3.1)	14.8 (2.1)
Northeast	18.0 (3.7)	33.7 (5.7)	15.8 (3.9)
North Central	13.6 (3.6)	28.4 (5.7)	15.7 (3.9)
South	8.9 (3.6)	12.3 (5.8)	13.8 (3.6)
West	19.6 (5.7)	8.6 (9.9)	12.5 (6.1)

Region	Without CCs Age <65	 65-69	 70+
U.S.	1.3 (1.7)	1.0 (3.5)	0.0 (2.6)
Northeast	0.0 (3.0)	0.0 (6.3)	0.0 (5.2)
North Central	0.0 (3.6)	0.0 (6.4)	0.0 (5.4)
South	2.5 (2.9)	4.3 (7.3)	0.0 (4.4)
West	3.4 (4.8)	0.0 (8.7)	0.0 (6.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 271
Lymphoma & Non-Acute Leukemia
DRG(s): 403, 404

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	22.9 (1.1)	28.1 (2.0)	25.0 (1.0)
Northeast	25.2 (2.4)	33.4 (3.9)	24.4 (1.9)
North Central	24.3 (2.2)	33.5 (3.8)	23.6 (2.0)
South	18.6 (1.9)	21.8 (3.6)	24.6 (1.9)
West	26.6 (2.9)	23.4 (4.7)	29.8 (2.8)

Region	Without CCs Age <65	 65-69	 70+
U.S.	5.5 (1.3)	7.8 (3.2)	10.7 (1.7)
Northeast	2.4 (2.8)	6.9 (5.8)	11.2 (3.8)
North Central	6.6 (2.5)	6.4 (6.8)	13.2 (3.6)
South	5.9 (2.0)	8.1 (5.3)	10.0 (2.6)
West	6.8 (3.3)	12.5 (9.6)	8.3 (4.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 272
Acute Leukemia w/o Major O.R. Procedures
DRG(s): 405, 473

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs			Region	Without CCs		
	Age				Age		
	<65	65-69	70+		<65	65-69	70+
U.S.	22.8 (1.5)	49.5 (3.5)	45.0 (1.9)	U.S.	7.4 (2.0)	5.8 (8.4)	34.4 (4.1)
Northeast	21.5 (3.1)	43.3 (6.9)	39.0 (3.8)	Northeast	9.5 (6.2)	0.0 (18.7)	35.6 (8.3)
North Central	28.9 (3.2)	47.0 (7.6)	41.3 (3.8)	North Central	15.8 (4.8)	0.0 (19.6)	37.7 (7.4)
South	20.1 (2.3)	53.2 (6.5)	50.4 (3.3)	South	4.7 (2.6)	23.5 (16.8)	39.3 (7.1)
West	24.2 (4.1)	53.9 (7.2)	48.2 (4.2)	West	6.2 (5.7)	0.0 (13.7)	9.9 (11.9)

ACTUAL DEATH RATES

PROVIDER

	With CCs				Without CCs		
	Age				Age		
	<65	65-69	70+		<65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 273
Myeloprolif. Disorders or Poorly Diff. Neoplasm w/ Major O.R. Procedures
DRG(s): 406, 407

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	9.4 (1.9)	11.9 (3.0)	18.6 (2.4)
Northeast	9.5 (4.4)	29.1 (7.6)	24.9 (4.9)
North Central	9.8 (3.6)	11.6 (5.3)	18.1 (4.3)
South	10.1 (3.4)	9.6 (4.8)	18.5 (4.4)
West	7.5 (4.3)	0.0 (8.0)	10.4 (6.0)

Region	Without CCs Age <65	 65-69	 70+
U.S.	2.0 (2.5)	0.0 (5.7)	2.0 (3.9)
Northeast	0.0 (4.6)	0.0 (11.7)	4.1 (6.8)
North Central	0.0 (4.7)	0.0 (11.5)	0.0 (9.2)
South	1.5 (4.5)	0.0 (9.7)	2.0 (6.7)
West	12.6 (7.1)	0.0 (14.4)	0.0 (9.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 274
Myeloprolif. Disorders or Poorly Diff. Neoplasm w/ Other O.R. Procedures
DRG(s): 408

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	6.8 (1.7)	12.1 (2.7)	10.6 (2.1)
Northeast	3.4 (3.9)	13.0 (6.6)	9.9 (4.3)
North Central	5.6 (2.7)	13.1 (5.0)	11.1 (3.7)
South	13.3 (3.2)	4.4 (4.8)	15.1 (4.0)
West	2.4 (4.1)	20.5 (5.5)	2.2 (5.6)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.3 (1.4)	2.5 (3.1)	1.1 (2.4)
Northeast	0.0 (3.5)	0.0 (6.8)	0.0 (5.2)
North Central	0.0 (2.7)	4.0 (4.9)	1.9 (4.0)
South	0.4 (2.4)	3.5 (5.8)	1.6 (4.7)
West	0.7 (3.2)	0.0 (8.6)	0.0 (5.6)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 275
Radiotherapy
DRG(s): 409

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	5.8 (1.9)	6.3 (3.9)	8.3 (2.2)
Northeast	5.5 (4.6)	0.0 (9.2)	10.4 (4.7)
North Central	6.4 (4.0)	13.1 (7.5)	11.5 (4.6)
South	5.4 (3.0)	5.4 (5.8)	4.6 (3.6)
West	6.3 (4.7)	3.6 (12.2)	9.6 (5.8)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (2.8)	0.0 (7.1)	0.0 (5.5)
Northeast	0.0 (6.4)	0.0 (14.1)	0.0 (12.7)
North Central	0.0 (5.4)	0.0 (22.5)	0.0 (9.4)
South	0.0 (5.5)	0.0 (12.6)	0.0 (10.5)
West	0.0 (5.4)	0.0 (12.6)	0.0 (12.9)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 276
Chemotherapy
DRG(s): 410

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
U.S.	**0.6** (0.4)	**1.1** (0.7)	**1.0** (0.6)
Northeast	**0.6** (0.8)	**1.2** (1.4)	**1.4** (1.3)
North Central	**0.6** (0.7)	**1.0** (1.3)	**0.4** (1.2)
South	**0.5** (0.7)	**1.5** (1.3)	**1.0** (1.1)
West	**0.6** (0.9)	**0.4** (1.7)	**1.2** (1.4)

Region	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	**0.1** (0.6)	**0.1** (1.4)	**0.0** (1.2)
Northeast	**0.0** (1.3)	**0.0** (2.9)	**0.0** (2.5)
North Central	**0.1** (1.2)	**0.7** (3.0)	**0.0** (2.2)
South	**0.0** (1.1)	**0.0** (2.6)	**0.0** (2.5)
West	**0.1** (1.4)	**0.0** (3.0)	**0.0** (3.0)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 277
History of Malignancy w/o Endoscopy
DRG(s): 411

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	5.5 (3.5)	0.0 (6.4)	1.8 (4.9)
Northeast	34.7 (14.7)	- (-)	0.0 (17.4)
North Central	0.0 (10.4)	0.0 (37.8)	18.7 (16.0)
South	3.4 (4.0)	0.0 (6.4)	0.0 (5.4)
West	15.6 (14.9)	- (-)	- (-)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (5.1)	0.0 (13.9)	0.0 (8.3)
Northeast	0.0 (11.9)	- (-)	0.0 (13.3)
North Central	0.0 (13.4)	0.0 (37.8)	0.0 (23.5)
South	0.0 (7.1)	0.0 (15.5)	0.0 (14.5)
West	0.0 (13.4)	- (-)	0.0 (21.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 278
History of Malignancy w/ Endoscopy
DRG(s): 412

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (8.0)	0.0 (14.1)	0.0 (7.1)
Northeast	0.0 (25.5)	0.0 (22.5)	0.0 (18.8)
North Central	0.0 (26.7)	0.0 (21.7)	0.0 (22.0)
South	0.0 (8.9)	- (-)	0.0 (8.4)
West	- (-)	0.0 (34.5)	0.0 (37.8)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (5.3)	0.0 (10.0)	0.0 (8.5)
Northeast	0.0 (11.8)	0.0 (15.1)	0.0 (19.1)
North Central	0.0 (11.1)	0.0 (26.7)	0.0 (16.3)
South	0.0 (7.7)	0.0 (16.8)	0.0 (11.6)
West	0.0 (18.7)	0.0 (37.8)	- (-)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 279
Other Myeloprolif. Disorders or Poorly Diff. Neoplasm Dxs
DRG(s): 413, 414

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+	Region	Without CCs Age <65	 65-69	 70+
U.S.	35.7 (1.4)	38.0 (2.5)	48.6 (1.4)	U.S.	29.3 (2.4)	43.2 (4.3)	44.4 (2.8)
Northeast	41.0 (3.1)	47.4 (5.1)	53.4 (3.0)	Northeast	37.5 (6.5)	8.1 (10.7)	37.8 (6.6)
North Central	37.3 (2.6)	32.9 (5.0)	46.5 (2.6)	North Central	27.3 (3.9)	48.5 (8.7)	37.9 (5.7)
South	35.4 (2.5)	37.8 (4.0)	47.3 (2.5)	South	32.9 (3.8)	53.4 (6.7)	58.4 (4.1)
West	27.2 (3.4)	30.2 (7.3)	48.4 (3.8)	West	10.5 (7.7)	44.2 (10.7)	15.7 (7.6)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+		Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 280
O.R. Procedures for Infectious & Parasitic Diseases
DRG(s): 415

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	13.8 (1.1)	17.1 (2.1)	25.8 (1.1)
Northeast	16.2 (2.4)	14.8 (4.1)	34.9 (2.4)
North Central	11.5 (2.3)	20.3 (3.9)	23.5 (2.1)
South	13.9 (1.9)	15.2 (3.5)	22.9 (2.1)
West	13.6 (2.5)	19.4 (5.7)	22.3 (2.8)

Region	Without CCs Age <65	65-69	70+
U.S.	0.3 (1.2)	2.0 (4.3)	2.2 (2.7)
Northeast	0.0 (3.0)	0.0 (10.1)	3.4 (6.1)
North Central	0.0 (2.5)	7.2 (8.3)	2.3 (5.9)
South	0.8 (2.0)	0.0 (7.5)	1.3 (4.3)
West	0.0 (2.8)	0.0 (9.5)	3.2 (6.7)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 281
Septicemia
DRG: 416, 417

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	11.7 (0.8)	19.0 (1.3)	23.6 (0.5)
Northeast	14.2 (1.7)	22.9 (2.8)	24.9 (1.2)
North Central	9.8 (1.5)	17.3 (2.5)	22.1 (1.0)
South	13.7 (1.2)	19.1 (2.2)	24.6 (0.9)
West	7.3 (1.9)	16.1 (3.3)	22.5 (1.4)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.7 (1.2)	9.0 (3.8)	16.5 (2.0)
Northeast	0.1 (2.8)	0.0 (8.8)	20.4 (4.4)
North Central	0.5 (2.5)	12.1 (9.2)	16.5 (4.3)
South	1.1 (1.9)	12.4 (5.1)	17.0 (3.0)
West	0.6 (3.1)	0.0 (12.9)	9.9 (5.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 282
Postoperative & Post-Trauma Infections
DRG(s): 418

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	0.6 (1.7)	6.2 (4.3)	4.8 (2.6)
Northeast	0.8 (4.1)	15.3 (12.1)	7.7 (6.1)
North Central	0.2 (3.2)	0.0 (9.3)	7.0 (5.2)
South	0.0 (3.0)	1.8 (6.7)	4.4 (4.0)
West	1.7 (3.5)	15.1 (9.1)	0.0 (5.9)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (1.1)	0.0 (3.9)	0.0 (2.7)
Northeast	0.0 (2.4)	0.0 (7.9)	0.0 (5.3)
North Central	0.0 (2.1)	0.0 (7.0)	0.0 (5.0)
South	0.0 (2.0)	0.0 (8.4)	0.0 (5.1)
West	0.0 (2.4)	0.0 (8.3)	0.0 (6.0)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 283
Fever of Unknown Origin, Ages 18+
DRG(s): 419, 420

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	1.3 (1.3)	3.0 (2.8)	4.1 (1.5)
Northeast	1.8 (2.8)	0.0 (6.8)	7.6 (3.0)
North Central	1.0 (2.5)	2.8 (6.4)	4.4 (3.3)
South	0.6 (2.1)	4.5 (4.4)	2.6 (2.3)
West	2.8 (3.0)	2.5 (6.1)	2.5 (3.5)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.2 (1.4)	0.0 (3.8)	1.8 (2.4)
Northeast	0.0 (3.4)	0.0 (16.4)	1.5 (4.7)
North Central	1.1 (3.4)	0.0 (9.9)	5.4 (5.6)
South	0.0 (2.0)	0.0 (5.0)	0.0 (3.6)
West	0.0 (3.7)	0.0 (8.5)	3.3 (6.4)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 284
Viral Illness, Age >17
DRG(s): 421

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.6 (1.0)	2.8 (3.0)	1.3 (1.6)
Northeast	0.7 (2.3)	0.0 (7.8)	2.4 (4.1)
North Central	0.8 (2.0)	0.0 (5.9)	1.6 (3.4)
South	0.2 (1.5)	2.3 (4.7)	1.0 (2.7)
West	0.9 (2.6)	9.3 (6.7)	0.8 (3.4)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.9)	0.0 (3.9)	0.0 (2.6)
Northeast	0.0 (2.2)	0.0 (11.3)	0.0 (6.4)
North Central	0.0 (2.0)	0.0 (9.3)	0.0 (5.3)
South	0.0 (1.4)	0.0 (6.0)	0.0 (4.0)
West	0.0 (2.8)	0.0 (7.1)	0.0 (6.8)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 285
Viral Illness & Fever of Unknown Origin, Age <18
DRG(s): 422

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	0.1 (0.9)	– (–)	– (–)
Northeast	0.0 (2.2)	– (–)	– (–)
North Central	0.2 (1.7)	– (–)	– (–)
South	0.0 (1.4)	– (–)	– (–)
West	0.0 (2.6)	– (–)	– (–)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (0.6)	– (–)	– (–)
Northeast	0.0 (1.4)	– (–)	– (–)
North Central	0.0 (1.2)	– (–)	– (–)
South	0.0 (1.0)	– (–)	– (–)
West	0.0 (1.8)	– (–)	– (–)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died ÷ Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died ÷ Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 286
Other Infections & Parasitic Disease Dxs
DRG(s): 423

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	7.3 (1.7)	6.2 (4.7)	12.0 (2.5)
Northeast	14.5 (3.6)	21.4 (12.4)	18.4 (6.4)
North Central	3.3 (3.7)	5.7 (9.0)	12.0 (5.8)
South	7.7 (2.6)	3.7 (7.2)	10.9 (3.6)
West	2.2 (3.9)	0.0 (11.6)	10.0 (5.6)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.6)	0.0 (8.1)	2.2 (5.6)
Northeast	0.0 (3.7)	0.0 (21.8)	0.0 (14.2)
North Central	0.0 (4.1)	0.0 (15.9)	0.0 (10.7)
South	0.0 (2.4)	0.0 (15.6)	4.5 (8.0)
West	0.0 (4.0)	0.0 (13.9)	0.0 (17.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 287
O.R. Procedures w/ Prin Dx of Mental Illness
DRG(s): 424

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+	Region	Without CCs Age <65	 65-69	 70+
U.S.	1.1 (2.3)	2.3 (5.8)	7.4 (2.5)	U.S.	0.0 (1.5)	0.0 (6.7)	0.0 (4.2)
Northeast	2.4 (5.8)	13.0 (13.6)	20.0 (5.0)	Northeast	0.0 (4.2)	0.0 (19.0)	0.0 (8.2)
North Central	1.6 (3.3)	0.0 (8.8)	3.7 (5.0)	North Central	0.0 (2.5)	0.0 (9.9)	0.0 (7.8)
South	0.0 (4.3)	0.0 (11.3)	4.0 (4.2)	South	0.0 (2.7)	0.0 (10.9)	0.0 (7.3)
West	0.0 (6.4)	0.0 (16.3)	0.0 (6.7)	West	0.0 (3.8)	0.0 (37.8)	0.0 (11.6)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+		Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 288
Acute Adjust. React. & Disturbances of Psychosocial Dysfunction
DRG(s): 425

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	0.3 (1.4)	0.0 (3.4)	3.6 (1.6)
Northeast	0.0 (4.1)	0.0 (9.4)	8.0 (4.1)
North Central	0.4 (2.5)	0.0 (6.0)	1.5 (3.2)
South	0.5 (2.2)	0.0 (5.9)	3.9 (2.6)
West	0.0 (3.2)	0.0 (7.6)	2.1 (3.9)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (0.8)	0.0 (3.7)	2.3 (2.0)
Northeast	0.0 (2.2)	0.0 (12.8)	0.0 (5.7)
North Central	0.0 (1.5)	0.0 (6.9)	1.1 (3.8)
South	0.0 (1.2)	0.0 (5.3)	3.9 (3.1)
West	0.0 (2.0)	0.0 (9.3)	2.0 (4.7)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 289
Depressive Neuroses
DRG(s): 426

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	0.1 (0.8)	1.2 (3.0)	0.9 (2.0)
Northeast	0.0 (2.4)	0.0 (10.1)	0.0 (5.4)
North Central	0.0 (1.4)	0.0 (5.6)	0.9 (3.7)
South	0.3 (1.3)	0.0 (4.3)	1.4 (3.1)
West	0.0 (2.0)	10.4 (9.1)	0.0 (5.7)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (0.5)	0.0 (2.8)	0.3 (1.9)
Northeast	0.0 (1.5)	0.0 (10.0)	3.0 (5.9)
North Central	0.0 (0.8)	0.0 (5.3)	0.0 (3.7)
South	0.0 (0.7)	0.0 (3.8)	0.0 (2.5)
West	0.0 (1.2)	0.0 (8.2)	0.0 (6.1)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 290
Neuroses Except Depressive
DRG(s): 427

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+	Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (1.6)	0.0 (8.2)	0.0 (5.6)	U.S.	0.0 (0.8)	0.0 (5.4)	0.0 (4.4)
Northeast	0.0 (4.0)	0.0 (16.4)	0.0 (17.3)	Northeast	0.0 (2.1)	0.0 (10.6)	0.0 (10.3)
North Central	0.0 (2.7)	0.0 (14.6)	0.0 (9.4)	North Central	0.0 (1.3)	0.0 (11.4)	0.0 (8.0)
South	0.0 (2.9)	0.0 (14.0)	0.0 (9.1)	South	0.0 (1.3)	0.0 (9.8)	0.0 (8.2)
West	0.0 (3.3)	0.0 (27.0)	0.0 (13.4)	West	0.0 (1.8)	0.0 (12.0)	0.0 (9.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+		Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 291
Disorders of Personality & Impulse Control
DRG(s): 428

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+	Region	Without CCs Age <65	 65-69	 70+
U.S.	0.5 (1.8)	0.0 (15.7)	8.7 (7.6)	U.S.	0.0 (1.1)	0.0 (12.0)	6.4 (9.4)
Northeast	0.0 (4.7)	0.0 (17.7)	27.8 (20.4)	Northeast	0.0 (3.0)	0.0 (21.3)	0.0 (22.4)
North Central	0.0 (3.3)	- (-)	10.3 (11.2)	North Central	0.0 (2.0)	0.0 (19.0)	0.0 (22.0)
South	0.6 (3.0)	0.0 (33.4)	0.0 (14.5)	South	0.0 (1.9)	0.0 (27.6)	13.8 (13.8)
West	1.3 (4.2)	- (-)	0.0 (22.0)	West	0.0 (2.6)	0.0 (37.8)	0.0 (22.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+		Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷	No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 292
Organic Disturbances & Mental Retardation
DRG(s): 429

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+	Region	Without CCs Age <65	 65-69	 70+
U.S.	3.2 (1.9)	3.7 (2.9)	3.7 (1.0)	U.S.	0.5 (1.7)	0.0 (3.4)	0.5 (1.1)
Northeast	2.4 (5.4)	3.8 (7.5)	4.3 (2.3)	Northeast	0.0 (4.6)	0.0 (7.7)	0.0 (2.6)
North Central	1.1 (3.6)	2.3 (5.9)	3.0 (2.0)	North Central	0.0 (3.1)	0.0 (6.0)	0.3 (2.2)
South	3.5 (2.7)	4.3 (4.3)	3.9 (1.6)	South	0.9 (2.6)	0.0 (5.5)	1.1 (1.8)
West	6.4 (4.9)	4.1 (7.8)	3.5 (2.7)	West	1.0 (4.1)	0.0 (12.0)	0.0 (2.8)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+		Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 293
Psychoses
DRG(s): 430

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.3 (0.5)	1.7 (1.5)	1.9 (1.0)
Northeast	0.1 (1.3)	0.0 (3.2)	2.5 (2.0)
North Central	0.3 (0.8)	1.9 (2.7)	0.5 (1.9)
South	0.5 (0.9)	2.3 (2.6)	2.9 (1.7)
West	0.2 (1.2)	2.4 (4.3)	1.3 (2.5)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.3)	0.1 (1.2)	0.1 (0.8)
Northeast	0.0 (0.7)	0.5 (2.7)	0.0 (1.6)
North Central	0.0 (0.5)	0.0 (2.3)	0.0 (1.5)
South	0.0 (0.5)	0.0 (2.0)	0.3 (1.4)
West	0.0 (0.6)	0.0 (3.6)	0.0 (2.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 294
Childhood Mental Disorders
DRG(s): 431

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+	Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (2.6)	– (–)	– (–)	U.S.	0.0 (1.1)	– (–)	– (–)
Northeast	0.0 (15.2)	– (–)	– (–)	Northeast	0.0 (3.5)	– (–)	– (–)
North Central	0.0 (4.7)	– (–)	– (–)	North Central	0.0 (1.9)	– (–)	– (–)
South	0.0 (3.8)	– (–)	– (–)	South	0.0 (1.7)	– (–)	– (–)
West	0.0 (6.4)	– (–)	– (–)	West	0.0 (2.6)	– (–)	– (–)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+		Without CCs Age <65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷	No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 295
Other Dxs of Mental Disorders
DRG(s): 432

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (3.6)	0.0 (11.5)	15.9 (8.8)
Northeast	0.0 (10.8)	0.0 (37.8)	- (-)
North Central	0.0 (6.0)	0.0 (20.3)	0.0 (14.0)
South	0.0 (6.6)	0.0 (18.1)	47.5 (15.2)
West	0.0 (7.5)	0.0 (27.0)	0.0 (16.9)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.2 (1.8)	0.0 (15.9)	0.0 (8.9)
Northeast	0.0 (6.2)	- (-)	0.0 (22.6)
North Central	0.0 (3.5)	0.0 (17.9)	0.0 (24.2)
South	0.6 (3.1)	0.0 (35.0)	0.0 (14.1)
West	0.0 (3.3)	- (-)	0.0 (15.9)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 296
Alcohol/Drug Use & Induced Organic Mental Disorders, Left AMA
DRG(s): 433

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	0.0 (1.0)	0.0 (5.8)	0.0 (6.3)
Northeast	0.0 (1.9)	0.0 (30.4)	0.0 (11.9)
North Central	0.0 (1.6)	0.0 (10.4)	0.0 (11.8)
South	0.0 (2.3)	0.0 (8.8)	0.0 (15.8)
West	0.0 (2.2)	0.0 (12.0)	0.0 (12.2)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (0.9)	0.0 (5.8)	0.0 (7.1)
Northeast	0.0 (2.6)	0.0 (26.7)	0.0 (17.7)
North Central	0.0 (1.5)	0.0 (12.9)	0.0 (15.9)
South	0.0 (1.5)	0.0 (8.0)	0.0 (11.4)
West	0.0 (2.4)	0.0 (12.8)	0.0 (14.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 297
Alcohol/Drug Abuse, Intox. Induced Mental Syn. Except Depend. &/or Other Symptomatic Treat.
DRG(s): 434

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	1.0 (1.2)	1.1 (4.0)	1.3 (2.5)
Northeast	3.2 (3.8)	4.9 (8.4)	2.8 (6.4)
North Central	0.0 (2.0)	0.0 (8.2)	0.0 (4.8)
South	1.7 (2.0)	0.0 (6.7)	0.0 (4.4)
West	0.6 (2.8)	0.0 (9.6)	3.3 (4.9)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.9)	0.0 (5.7)	0.0 (3.3)
Northeast	0.0 (2.9)	0.0 (12.2)	0.0 (7.7)
North Central	0.0 (1.5)	0.0 (16.5)	0.0 (5.8)
South	0.0 (1.4)	0.0 (7.8)	0.0 (6.2)
West	0.0 (2.3)	0.0 (15.0)	0.0 (7.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 298
Alcohol/Drug Dependence, Detox. &/or Other Symptomatic Treatment
DRG(s): 435

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.2 (0.5)	1.4 (2.1)	1.7 (1.8)
Northeast	0.2 (1.1)	5.3 (4.8)	0.0 (4.1)
North Central	0.1 (0.7)	0.0 (4.0)	1.6 (3.3)
South	0.5 (1.0)	0.6 (4.0)	3.6 (3.4)
West	0.2 (1.1)	1.0 (4.3)	0.9 (3.6)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.5)	0.0 (3.4)	0.0 (3.1)
Northeast	0.0 (1.2)	0.0 (9.2)	0.0 (7.3)
North Central	0.0 (0.7)	0.0 (6.1)	0.0 (5.3)
South	0.0 (1.2)	0.0 (5.1)	0.0 (5.4)
West	0.1 (1.4)	0.0 (9.2)	0.0 (7.9)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 299
Alcohol/Drug Dependence w/ Rehab. Therapy
DRG(s): 436

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.0 (1.3)	0.0 (5.6)	2.1 (5.6)
Northeast	0.0 (3.7)	0.0 (15.5)	0.0 (12.6)
North Central	0.0 (2.0)	0.0 (10.4)	0.0 (7.8)
South	0.0 (3.3)	0.0 (11.4)	0.0 (14.0)
West	0.0 (2.6)	0.0 (9.5)	18.4 (16.6)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.0)	0.0 (6.4)	0.0 (6.3)
Northeast	0.0 (2.6)	0.0 (12.9)	0.0 (17.0)
North Central	0.0 (1.7)	0.0 (12.6)	0.0 (14.3)
South	0.0 (1.8)	0.0 (11.0)	0.0 (11.2)
West	0.0 (2.1)	0.0 (15.9)	0.0 (10.7)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 300
Alcohol/Drug Dependence, Combined Rehab. & Detox. Therapy
DRG(s): 437

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+	Region	Without CCs Age <65	65-69	70+
U.S.	0.1 (0.9)	0.0 (3.4)	0.0 (3.3)	U.S.	0.0 (0.8)	0.0 (4.6)	0.0 (4.8)
Northeast	0.0 (1.7)	0.0 (8.6)	0.0 (9.4)	Northeast	0.0 (2.3)	0.0 (13.6)	0.0 (20.3)
North Central	0.0 (2.0)	0.0 (5.2)	0.0 (4.9)	North Central	0.0 (1.5)	0.0 (9.5)	0.0 (7.4)
South	0.2 (1.8)	0.0 (6.9)	0.0 (7.1)	South	0.0 (1.3)	0.0 (6.4)	0.0 (8.6)
West	0.0 (2.0)	0.0 (7.5)	0.0 (7.1)	West	0.0 (1.8)	0.0 (11.9)	0.0 (10.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+		Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER 301 (DRG 438) IS NO LONGER USED AND IS NOT INCLUDED IN THE TABLES.

DRG CLUSTER: 302
Skin Grafts for Injuries
DRG(s): 439

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+	Region	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	1.5 (4.6)	8.8 (11.4)	0.0 (11.1)	U.S.	0.0 (2.4)	0.0 (11.4)	0.0 (7.9)
Northeast	0.0 (11.7)	0.0 (18.0)	0.0 (21.4)	Northeast	0.0 (6.0)	0.0 (38.6)	0.0 (17.7)
North Central	5.0 (8.5)	0.0 (17.7)	0.0 (21.4)	North Central	0.0 (4.7)	0.0 (19.7)	0.0 (13.4)
South	0.0 (7.2)	0.0 (37.8)	0.0 (20.4)	South	0.0 (4.1)	0.0 (18.2)	0.0 (16.5)
West	0.0 (12.0)	100.0 (38.6)	0.0 (26.7)	West	0.0 (4.9)	0.0 (26.7)	0.0 (16.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+		Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 303
Wound Debridements for Injuries
DRG(s): 440

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	2.1 (1.7)	3.6 (5.1)	6.7 (2.9)
Northeast	2.3 (4.0)	0.0 (8.9)	2.3 (5.7)
North Central	4.0 (3.5)	5.5 (8.9)	8.6 (6.4)
South	0.6 (2.9)	22.7 (18.0)	5.7 (5.1)
West	2.0 (3.8)	0.0 (9.7)	11.7 (6.4)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.0)	0.0 (6.3)	0.0 (3.6)
Northeast	0.0 (2.6)	0.0 (14.9)	0.0 (9.2)
North Central	0.0 (1.8)	0.0 (12.3)	0.0 (7.6)
South	0.0 (1.6)	0.0 (10.1)	0.0 (5.9)
West	0.0 (2.3)	0.0 (15.5)	0.0 (7.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 304
Hand Procedures for Injuries
DRG(s): 441

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+	Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (3.9)	0.0 (12.7)	0.0 (7.5)	U.S.	0.0 (1.4)	0.0 (6.9)	0.0 (5.8)
Northeast	0.0 (9.0)	0.0 (27.0)	0.0 (18.7)	Northeast	0.0 (3.3)	0.0 (24.2)	0.0 (19.5)
North Central	0.0 (6.9)	0.0 (37.8)	0.0 (16.2)	North Central	0.0 (2.3)	0.0 (12.0)	0.0 (11.5)
South	0.0 (6.8)	0.0 (28.2)	0.0 (10.0)	South	0.0 (2.6)	0.0 (11.6)	0.0 (9.7)
West	0.0 (9.7)	0.0 (18.5)	0.0 (27.5)	West	0.0 (3.0)	0.0 (14.2)	0.0 (10.7)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+		Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 305
Other O.R. Procedures for Injuries
DRG(s): 442, 443

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs			Region	Without CCs		
	Age				Age		
	<65	65-69	70+		<65	65-69	70+
U.S.	4.3 (0.7)	6.7 (1.6)	7.2 (1.1)	U.S.	0.2 (0.6)	1.0 (2.2)	0.9 (1.3)
Northeast	5.0 (1.7)	6.9 (3.7)	9.0 (2.2)	Northeast	0.0 (1.5)	1.6 (4.8)	1.7 (2.8)
North Central	3.7 (1.6)	3.6 (3.5)	3.2 (2.4)	North Central	0.1 (1.3)	2.5 (4.2)	0.5 (2.5)
South	4.5 (1.3)	8.0 (2.9)	9.3 (2.0)	South	0.3 (1.1)	0.0 (3.8)	0.5 (2.3)
West	4.0 (1.5)	7.3 (3.1)	6.3 (2.3)	West	0.5 (1.5)	0.0 (4.6)	1.5 (3.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs				Without CCs		
	Age				Age		
	<65	65-69	70+		<65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷	No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 306
Multiple Trauma
DRG(s): 444, 445, 446

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	1.2 (1.3)	2.0 (5.4)	4.1 (2.6)
Northeast	2.5 (2.9)	0.0 (14.0)	6.2 (5.6)
North Central	1.0 (2.6)	0.0 (10.9)	0.0 (5.1)
South	0.9 (1.9)	0.0 (8.0)	4.7 (4.2)
West	0.9 (3.6)	12.0 (13.1)	7.5 (7.4)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.8)	0.0 (5.9)	1.6 (3.1)
Northeast	0.0 (1.8)	0.0 (13.8)	0.0 (5.5)
North Central	0.0 (1.7)	0.0 (15.3)	0.0 (6.5)
South	0.0 (1.3)	0.0 (9.6)	4.7 (5.3)
West	0.0 (2.4)	0.0 (11.2)	0.0 (8.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

6

DRG CLUSTER: 307
Allergic Reactions
DRG(s): 447, 448

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	1.0 (2.6)	0.0 (6.5)	1.5 (4.7)
Northeast	3.9 (5.5)	0.0 (13.7)	16.1 (15.2)
North Central	0.0 (5.4)	0.0 (12.4)	0.0 (9.7)
South	0.5 (4.1)	0.0 (11.2)	0.0 (6.3)
West	0.0 (6.4)	0.0 (15.7)	0.0 (13.3)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.6)	0.0 (6.0)	0.0 (5.3)
Northeast	0.0 (4.0)	0.0 (18.4)	0.0 (18.6)
North Central	0.0 (3.0)	0.0 (21.7)	0.0 (10.0)
South	0.0 (2.4)	0.0 (7.7)	0.0 (7.1)
West	0.0 (4.8)	0.0 (13.6)	0.0 (20.0)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 308
Poisoning & Toxic Effects of Drugs
DRG(s): 449, 450, 451

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs		
	Age		
	<65	65-69	70+
U.S.	1.6 (0.6)	2.6 (1.9)	3.3 (1.0)
Northeast	2.0 (1.3)	0.0 (4.2)	3.6 (2.2)
North Central	1.7 (1.1)	4.0 (3.5)	1.9 (2.1)
South	1.2 (1.1)	1.9 (3.6)	4.0 (1.7)
West	1.5 (1.3)	4.5 (4.6)	3.6 (2.5)

Region	Without CCs		
	Age		
	<65	65-69	70+
U.S.	0.1 (0.4)	0.0 (2.8)	0.0 (1.6)
Northeast	0.1 (0.9)	0.0 (5.8)	0.0 (3.5)
North Central	0.1 (0.8)	0.0 (5.9)	0.0 (3.2)
South	0.1 (0.7)	0.0 (4.5)	0.0 (2.6)
West	0.0 (1.0)	0.0 (7.4)	0.0 (3.9)

ACTUAL DEATH RATES

PROVIDER

	With CCs		
	Age		
	<65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs		
	Age		
	<65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 309
Complications of Treatment
DRG: 452, 453

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	1.7 (1.0)	0.7 (2.2)	3.3 (1.3)
Northeast	0.6 (2.4)	1.8 (5.2)	4.9 (2.8)
North Central	0.6 (1.9)	1.3 (4.3)	2.9 (2.6)
South	2.5 (1.9)	0.0 (3.7)	3.8 (2.3)
West	2.8 (2.0)	0.0 (4.8)	1.1 (3.0)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.1 (0.8)	0.0 (2.4)	0.0 (1.6)
Northeast	0.2 (1.9)	0.0 (5.9)	0.0 (3.4)
North Central	0.1 (1.6)	0.0 (4.5)	0.0 (3.0)
South	0.0 (1.4)	0.0 (4.2)	0.0 (2.9)
West	0.0 (2.0)	0.0 (5.7)	0.0 (3.8)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 310
Other Injuries, Poisonings, & Toxic Eff Dxs
DRG(s): 454, 455

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	5.9 (1.8)	6.2 (5.2)	15.0 (2.4)
Northeast	5.6 (5.2)	0.5 (16.1)	29.6 (7.2)
North Central	1.3 (4.4)	16.5 (10.9)	8.6 (4.9)
South	7.6 (2.7)	5.0 (7.7)	18.4 (3.5)
West	6.1 (3.9)	0.0 (11.7)	6.3 (5.5)

Region	Without CCs Age <65	 65-69	 70+
U.S.	1.2 (1.3)	0.0 (7.3)	3.4 (3.8)
Northeast	0.0 (3.2)	– (–)	0.0 (10.6)
North Central	0.0 (2.8)	0.0 (21.3)	7.7 (7.0)
South	1.8 (1.9)	0.0 (8.9)	0.0 (6.1)
West	2.2 (3.0)	0.0 (16.4)	6.0 (8.9)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER 311 (DRG 456) COMPRISES TRANSFER PATIENTS EXCLUSIVELY AND IS NOT INCLUDED IN THE TABLES.

DRG CLUSTER: 312
Extensive Burns w/o O.R. Procedures
DRG(s): 457

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	23.8 (8.4)	- (-)	100.0 (37.8)
Northeast	22.5 (9.6)	- (-)	- (-)
North Central	49.0 (27.0)	- (-)	- (-)
South	13.1 (22.3)	- (-)	- (-)
West	- (-)	- (-)	100.0 (37.8)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (7.9)	100.0 (27.6)	100.0 (37.8)
Northeast	0.0 (11.0)	- (-)	100.0 (37.8)
North Central	0.0 (30.1)	- (-)	- (-)
South	0.0 (13.7)	100.0 (27.6)	- (-)
West	0.0 (25.3)	- (-)	- (-)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 313
Non-Extensive Burns w/ Skin Grafts
DRG(s): 458

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	4.2 (2.6)	26.7 (8.7)	10.7 (5.0)
Northeast	7.9 (4.3)	43.8 (14.0)	8.7 (7.9)
North Central	0.0 (6.0)	0.0 (26.7)	0.0 (15.5)
South	4.0 (4.5)	24.0 (13.9)	15.7 (7.4)
West	0.0 (7.7)	0.0 (27.0)	0.0 (26.0)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (1.6)	12.3 (11.0)	0.0 (6.1)
Northeast	0.0 (2.8)	0.0 (16.1)	0.0 (10.2)
North Central	0.0 (3.8)	0.0 (37.8)	0.0 (16.5)
South	0.0 (2.5)	27.0 (16.3)	0.0 (8.7)
West	0.0 (5.3)	- (-)	0.0 (43.8)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 314
Non-Extensive Burns w/ Wound Debridement or Other O.R. Procedures
DRG(s): 459

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	3.5 (5.1)	7.2 (10.1)	0.0 (8.3)
Northeast	0.0 (10.1)	0.0 (22.1)	0.0 (20.3)
North Central	6.0 (9.3)	0.0 (26.7)	0.0 (19.8)
South	5.2 (8.8)	0.0 (13.3)	0.0 (11.3)
West	0.0 (15.0)	100.0 (37.8)	0.0 (25.6)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (2.0)	0.0 (16.5)	0.0 (7.4)
Northeast	0.0 (4.4)	0.0 (26.6)	0.0 (12.8)
North Central	0.0 (3.9)	0.0 (21.0)	0.0 (16.2)
South	0.0 (3.1)	– (–)	0.0 (14.9)
West	0.0 (6.9)	– (–)	0.0 (16.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 315
Non-Extensive Burns w/o O.R. Procedures
DRG(s): 460

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	2.6 (2.5)	0.0 (9.0)	11.7 (4.2)
Northeast	2.1 (4.4)	0.0 (25.0)	12.1 (7.5)
North Central	2.4 (5.8)	0.0 (17.9)	22.8 (10.5)
South	3.6 (3.8)	0.0 (13.3)	9.1 (6.3)
West	0.0 (8.2)	0.0 (22.0)	0.0 (16.9)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.1 (1.0)	0.0 (8.5)	5.3 (6.1)
Northeast	0.0 (2.1)	0.0 (17.3)	9.2 (11.5)
North Central	0.0 (2.1)	0.0 (13.5)	0.0 (13.0)
South	0.3 (1.5)	0.0 (19.3)	7.4 (10.0)
West	0.0 (3.1)	0.0 (21.1)	0.0 (16.7)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 316
O.R. Procedures w/ Dxs of Other Contact w/ Health Services
DRG(s): 461

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	3.4 (1.7)	4.0 (3.6)	3.8 (2.2)
Northeast	4.1 (4.0)	0.0 (6.6)	1.2 (4.1)
North Central	2.8 (2.9)	4.5 (6.6)	4.1 (4.1)
South	4.9 (3.5)	13.1 (7.9)	4.0 (4.6)
West	2.1 (3.8)	0.0 (7.8)	6.3 (4.4)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.1 (1.1)	0.7 (3.1)	1.4 (2.3)
Northeast	0.7 (2.5)	0.0 (6.0)	0.0 (4.5)
North Central	0.0 (1.9)	2.3 (5.7)	7.5 (5.2)
South	0.0 (2.1)	0.0 (6.4)	0.0 (4.0)
West	0.0 (2.3)	0.0 (7.1)	0.0 (4.7)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 317
Rehabilitation
DRG(s): 462

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
U.S.	0.8 (1.1)	0.5 (1.7)	1.9 (0.9)
Northeast	0.7 (3.2)	0.0 (5.4)	0.5 (2.7)
North Central	1.5 (1.8)	0.0 (3.0)	3.1 (1.5)
South	0.0 (2.4)	1.5 (3.1)	2.5 (1.9)
West	0.5 (1.9)	0.0 (3.5)	0.7 (1.8)

Region	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	0.0 (1.8)	0.0 (2.8)	0.9 (1.6)
Northeast	0.0 (5.0)	0.0 (7.8)	0.0 (4.2)
North Central	0.0 (2.9)	0.0 (4.6)	2.3 (2.6)
South	0.0 (4.3)	0.0 (6.3)	0.0 (3.8)
West	0.0 (3.5)	0.0 (5.4)	0.0 (2.9)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 318
Signs & Symptoms
DRG(s): 463, 464

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+	Region	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	3.5 (1.7)	6.0 (3.5)	7.0 (1.8)	U.S.	0.4 (1.6)	1.7 (4.7)	0.7 (2.5)
Northeast	5.2 (3.7)	11.1 (7.3)	7.0 (4.0)	Northeast	0.0 (4.2)	0.0 (11.6)	0.0 (6.6)
North Central	5.6 (3.5)	4.5 (6.0)	7.1 (3.5)	North Central	0.0 (3.3)	6.0 (8.9)	0.0 (4.6)
South	2.1 (2.7)	2.0 (6.2)	4.2 (2.9)	South	0.7 (2.3)	0.0 (7.3)	1.7 (3.8)
West	1.5 (4.7)	11.3 (10.9)	13.6 (4.4)	West	0.0 (4.5)	0.0 (12.9)	0.0 (6.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+		Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 319
Aftercare w/ Hist. of Malignancy as Secondary Dx
DRG(s): 465

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
U.S.	3.8 (7.3)	7.2 (10.3)	14.0 (4.8)
Northeast	0.0 (13.7)	0.0 (17.8)	0.0 (9.2)
North Central	16.9 (15.6)	0.0 (37.8)	18.7 (13.6)
South	0.0 (15.9)	0.0 (19.1)	21.9 (8.9)
West	0.0 (13.9)	24.2 (19.0)	16.9 (8.5)

Region	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	0.0 (4.9)	0.0 (8.4)	0.0 (5.7)
Northeast	0.0 (9.1)	0.0 (12.0)	0.0 (8.3)
North Central	0.0 (11.5)	0.0 (26.7)	0.0 (15.9)
South	0.0 (7.4)	0.0 (13.2)	0.0 (9.4)
West	0.0 (16.1)	– (–)	0.0 (37.8)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRG CLUSTER: 320
Aftercare w/o His. of Malignancy as Secondary Dx
DRG(s): 466

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

	With CCs				Without CCs		
	Age				Age		
Region	<65	65-69	70+	Region	<65	65-69	70+
U.S.	5.0 (2.7)	11.4 (5.8)	25.3 (2.9)	U.S.	0.1 (1.1)	0.0 (4.8)	2.2 (3.1)
Northeast	0.0 (5.7)	0.0 (11.3)	0.0 (9.4)	Northeast	0.0 (2.9)	0.0 (10.5)	0.0 (7.5)
North Central	3.5 (7.2)	0.0 (10.6)	9.5 (7.0)	North Central	0.0 (3.5)	0.0 (13.9)	0.0 (5.5)
South	0.0 (5.3)	16.1 (15.2)	27.7 (4.8)	South	0.0 (1.5)	0.0 (6.4)	0.0 (5.0)
West	11.4 (4.2)	30.2 (10.6)	36.7 (4.8)	West	0.4 (2.5)	0.0 (14.4)	16.1 (8.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs				Without CCs		
	Age				Age		
	<65	65-69	70+		<65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷	No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTERS 321-324 (DRGs 467-470) CONTAIN UNGROUPABLE OR INVALID DATA AND ARE NOT INCLUDED IN THE TABLES.

DRG CLUSTER: 325
Bilateral or Multiple Major Joint Procedures of Lower Extrem.
DRG(s): 471

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+	Region	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	2.3 (4.8)	0.0 (6.2)	0.9 (3.5)	U.S.	0.0 (4.1)	0.0 (7.9)	0.0 (4.2)
Northeast	5.9 (10.3)	0.0 (9.9)	0.0 (7.4)	Northeast	0.0 (7.7)	0.0 (16.9)	0.0 (8.7)
North Central	0.0 (7.4)	0.0 (12.6)	0.0 (5.8)	North Central	0.0 (6.9)	0.0 (10.3)	0.0 (6.8)
South	4.8 (10.9)	0.0 (13.1)	3.5 (7.1)	South	0.0 (7.8)	0.0 (19.5)	0.0 (8.0)
West	0.0 (12.3)	0.0 (16.7)	0.0 (8.5)	West	0.0 (15.6)	0.0 (37.8)	0.0 (12.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+		Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

DRG CLUSTER: 326
Extensive Burns w/ O.R. Procedures
DRG(s): 472

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
U.S.	59.3 (5.5)	75.6 (18.7)	68.6 (15.0)
Northeast	41.1 (9.5)	100.0 (21.5)	66.7 (21.8)
North Central	0.0 (26.7)	- (-)	- (-)
South	75.1 (8.0)	0.0 (37.8)	100.0 (24.6)
West	66.4 (14.8)	- (-)	0.0 (37.8)

Region	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	27.1 (6.7)	0.0 (37.8)	73.1 (13.4)
Northeast	30.4 (11.8)	- (-)	100.0 (21.5)
North Central	- (-)	- (-)	- (-)
South	29.9 (8.7)	0.0 (37.8)	56.0 (17.1)
West	0.0 (21.2)	- (-)	- (-)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

PHYSICIAN SPECIALTY TABLES

Neurosurgery
DRG(s): 1-4, 7-8, 27-30

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs		
	Age		
	<65	65-69	70+
U.S.	10.5 (0.6)	18.5 (1.7)	19.6 (0.9)
Northeast	11.4 (1.4)	18.6 (3.8)	25.0 (1.8)
North Central	10.2 (1.1)	17.6 (2.9)	19.1 (1.7)
South	9.6 (0.9)	22.9 (3.1)	18.3 (1.6)
West	11.7 (1.2)	12.8 (3.8)	15.7 (2.1)

Region	Without CCs		
	Age		
	<65	65-69	70+
U.S.	2.0 (0.4)	2.0 (1.9)	6.6 (1.3)
Northeast	1.3 (1.0)	1.5 (4.2)	13.0 (3.0)
North Central	1.4 (0.8)	4.8 (3.7)	2.6 (2.3)
South	2.6 (0.7)	1.4 (3.2)	7.0 (2.1)
West	2.2 (1.0)	0.0 (4.2)	5.8 (3.0)

ACTUAL DEATH RATES

PROVIDER

	With CCs		
	Age		
	<65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs		
	Age		
	<65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

Vascular Surgery
DRG(s): 5, 110-112, 119-120

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	4.2 (0.5)	8.1 (0.8)	12.7 (0.5)
Northeast	4.2 (1.2)	9.9 (1.6)	16.7 (1.0)
North Central	3.8 (1.0)	5.2 (1.5)	12.3 (0.9)
South	4.0 (0.9)	9.1 (1.3)	9.9 (0.9)
West	4.9 (1.3)	8.3 (1.7)	12.6 (1.1)

Region	Without CCs Age <65	65-69	70+
U.S.	0.3 (0.5)	0.7 (0.9)	1.7 (0.7)
Northeast	0.5 (1.1)	0.4 (2.0)	1.8 (1.6)
North Central	0.2 (0.9)	1.0 (1.7)	2.4 (1.2)
South	0.4 (0.9)	0.9 (1.6)	1.1 (1.2)
West	0.3 (1.3)	0.0 (2.3)	1.4 (1.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

General Surgery

DRG(s): 6, 113-114, 146-167, 170-171, 191-198, 201, 213, 216-217, 226-229, 233-234, 257-271, 280-282, 285-293, 342-343, 392-394, 400-401, 415, 424, 439-446, 456-460, 472

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+	Region	Without CCs Age <65	65-69	70+
U.S.	3.1 (0.2)	5.5 (0.4)	9.4 (0.2)	U.S.	0.0 (0.1)	0.2 (0.4)	0.6 (0.3)
Northeast	3.6 (0.4)	6.3 (0.7)	10.6 (0.4)	Northeast	0.0 (0.2)	0.2 (0.8)	0.5 (0.6)
North Central	2.7 (0.3)	5.3 (0.7)	9.1 (0.4)	North Central	0.0 (0.2)	0.2 (0.8)	0.5 (0.5)
South	3.2 (0.3)	5.2 (0.6)	8.8 (0.4)	South	0.1 (0.2)	0.2 (0.7)	0.9 (0.5)
West	2.7 (0.4)	5.4 (0.9)	9.1 (0.5)	West	0.0 (0.3)	0.1 (1.0)	0.4 (0.7)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+		Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷	No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=		=	=	=
% Patients Who Died				% Patients Who Died			

Internal Medicine

DRG(s): 9, 12-25, 31-32, 34-35, 65-66, 68-69, 73, 78-80, 85-90, 92-97, 99-102, 121-136, 138-145, 174-183, 188-189, 199-200, 202, 204-208, 238, 240-249, 272-273, 276-278, 283-284, 294-297, 300-301, 316-317, 320-321, 323-326, 331-332, 348-350, 352, 368, 395, 397-399, 409, 411-412, 416, 418-421, 423, 447, 449-450, 452-455, 461-466

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age		
	<65	65-69	70+
U.S.	**3.7** (0.1)	**6.8** (0.2)	**10.7** (0.1)
Northeast	**4.1** (0.2)	**7.8** (0.3)	**12.0** (0.2)
North Central	**3.5** (0.2)	**6.4** (0.3)	**10.3** (0.2)
South	**3.6** (0.1)	**6.7** (0.3)	**10.5** (0.1)
West	**3.7** (0.2)	**6.8** (0.4)	**9.9** (0.2)

Region	Without CCs Age		
	<65	65-69	70+
U.S.	**0.3** (0.1)	**1.0** (0.2)	**2.6** (0.1)
Northeast	**0.3** (0.2)	**0.8** (0.5)	**2.3** (0.3)
North Central	**0.2** (0.1)	**0.9** (0.4)	**2.8** (0.2)
South	**0.3** (0.1)	**1.1** (0.3)	**2.9** (0.2)
West	**0.3** (0.2)	**0.9** (0.5)	**2.1** (0.3)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age		
	<65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age		
	<65	65-69	70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

Oncology

DRG(s): 10-11, 64, 82, 172-173, 203, 274-275, 318-319, 346-347, 366-367, 402-408, 410, 413-414, 473

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
U.S.	15.5 (0.3)	18.8 (0.4)	24.2 (0.3)
Northeast	15.4 (0.5)	19.3 (0.9)	25.9 (0.6)
North Central	15.4 (0.5)	19.3 (0.8)	25.0 (0.6)
South	16.3 (0.4)	16.7 (0.8)	23.9 (0.5)
West	14.1 (0.6)	17.4 (1.1)	20.9 (0.7)

Region	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
U.S.	5.9 (0.4)	8.3 (0.8)	12.6 (0.6)
Northeast	3.8 (0.8)	6.0 (1.7)	10.3 (1.2)
North Central	5.7 (0.7)	8.9 (1.6)	12.4 (1.1)
South	7.2 (0.6)	9.3 (1.4)	16.0 (1.0)
West	5.8 (1.0)	8.9 (2.1)	8.5 (1.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	With CCs Age 65-69	With CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	Without CCs Age 65-69	Without CCs Age 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

Pediatrics

DRG(s): 26, 33, 67, 70, 71, 74, 81, 91, 98, 137, 184,
190, 279, 298-299, 322, 327, 330, 333, 396,
417, 422, 448, 451

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	**0.5** (0.3)	– –	– –
Northeast	**0.3** (0.7)	– (–)	– (–)
North Central	**0.3** (0.5)	– (–)	– (–)
South	**0.7** (0.4)	– (–)	– (–)
West	**0.7** (0.7)	– (–)	– (–)

Region	Without CCs Age <65	 65-69	 70+
U.S.	**0.0** (0.2)	– (–)	– (–)
Northeast	**0.0** (0.4)	– (–)	– (–)
North Central	**0.0** (0.3)	– (–)	– (–)
South	**0.0** (0.2)	– (–)	– (–)
West	**0.1** (0.4)	– (–)	– (–)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

Ophthalmology
DRG(s): 36-48

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	0.2 (0.8)	0.2 (1.5)	0.6 (0.8)
Northeast	0.5 (1.8)	0.0 (2.6)	0.5 (1.3)
North Central	0.2 (1.5)	0.7 (3.2)	0.4 (1.7)
South	0.2 (1.3)	0.0 (2.8)	1.1 (1.4)
West	0.0 (2.2)	0.0 (4.4)	0.0 (2.6)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (0.4)	0.0 (1.0)	0.0 (0.5)
Northeast	0.0 (0.9)	0.0 (2.0)	0.0 (1.0)
North Central	0.0 (0.8)	0.0 (2.0)	0.0 (1.0)
South	0.0 (0.7)	0.0 (1.8)	0.0 (1.0)
West	0.1 (1.1)	0.0 (3.0)	0.0 (1.8)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

Ear, Nose, and Throat
DRG(s): 49-63, 72, 169

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	1.1 (0.8)	1.5 (2.0)	2.3 (1.5)
Northeast	0.7 (1.8)	2.4 (4.3)	4.9 (3.4)
North Central	1.2 (1.6)	1.0 (3.8)	2.8 (2.8)
South	1.4 (1.3)	0.3 (3.6)	1.7 (2.3)
West	0.9 (2.0)	3.0 (4.7)	0.0 (3.8)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.2)	0.0 (1.1)	0.1 (1.1)
Northeast	0.0 (0.4)	0.0 (2.9)	0.0 (2.4)
North Central	0.0 (0.4)	0.0 (2.2)	0.3 (2.2)
South	0.0 (0.3)	0.0 (1.8)	0.0 (1.8)
West	0.0 (0.5)	0.0 (2.9)	0.0 (2.7)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

Cardiothoracic Surgery
DRG(s): 75-77, 83-84, 103-109, 115-118

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	7.4 (0.4)	9.4 (0.6)	12.3 (0.4)
Northeast	7.6 (0.8)	9.6 (1.2)	14.5 (0.8)
North Central	8.6 (0.7)	13.2 (1.2)	13.2 (0.8)
South	6.8 (0.6)	7.3 (1.1)	10.9 (0.7)
West	6.8 (0.8)	7.6 (1.3)	10.8 (0.9)

Region	Without CCs Age <65	 65-69	 70+
U.S.	1.0 (0.5)	1.9 (1.1)	1.8 (0.7)
Northeast	0.7 (1.2)	1.1 (2.4)	1.6 (1.5)
North Central	1.0 (0.9)	2.1 (2.0)	2.2 (1.4)
South	0.9 (0.9)	3.2 (2.1)	1.3 (1.2)
West	1.4 (1.2)	0.8 (2.5)	2.4 (1.7)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

Dentistry
DRG(s): 168, 185-187

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	2.1 (0.8)	5.1 (2.9)	9.8 (1.6)
Northeast	2.6 (1.8)	12.0 (7.0)	15.8 (3.7)
North Central	1.6 (1.5)	5.9 (5.1)	10.5 (3.2)
South	2.1 (1.2)	2.0 (4.9)	8.8 (2.4)
West	2.3 (1.9)	3.3 (6.9)	4.4 (4.0)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.1 (0.9)	0.0 (5.8)	1.0 (1.9)
Northeast	0.0 (2.0)	0.0 (10.9)	0.8 (3.6)
North Central	0.0 (1.9)	0.0 (11.8)	2.1 (3.9)
South	0.2 (1.5)	0.0 (9.6)	0.7 (3.0)
West	0.0 (2.4)	0.0 (18.0)	0.0 (5.2)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

Orthopedics
DRG(s): 209-212, 214-215, 218-225, 230-232, 235-237,
239, 250-256, 471

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

		With CCs	
Region		Age	
	<65	65-69	70+
U.S.	3.0 (0.3)	4.9 (0.6)	6.3 (0.3)
Northeast	3.5 (0.8)	5.6 (1.4)	7.8 (0.6)
North Central	3.0 (0.7)	5.2 (1.2)	6.4 (0.5)
South	3.2 (0.6)	4.7 (1.1)	6.0 (0.5)
West	2.2 (0.8)	4.0 (1.5)	4.7 (0.6)

		Without CCs	
Region		Age	
	<65	65-69	70+
U.S.	0.1 (0.2)	0.3 (0.5)	0.5 (0.3)
Northeast	0.0 (0.4)	0.2 (1.2)	0.5 (0.7)
North Central	0.1 (0.3)	0.4 (1.0)	0.4 (0.6)
South	0.1 (0.3)	0.3 (0.9)	0.6 (0.5)
West	0.1 (0.4)	0.2 (1.2)	0.5 (0.7)

ACTUAL DEATH RATES

PROVIDER

		With CCs	
		Age	
	<65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

		Without CCs	
		Age	
	<65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

Urology
DRG(s): 302-315, 328-329, 334-341, 344-345, 351

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	65-69	70+
U.S.	1.7 (0.4)	2.3 (0.6)	3.0 (0.3)
Northeast	1.8 (0.9)	2.2 (1.2)	4.2 (0.6)
North Central	1.8 (0.8)	2.5 (1.1)	2.8 (0.6)
South	1.7 (0.6)	2.7 (0.9)	2.7 (0.5)
West	1.3 (0.9)	1.6 (1.3)	2.3 (0.7)

Region	Without CCs Age <65	65-69	70+
U.S.	0.0 (0.3)	0.0 (0.6)	0.1 (0.4)
Northeast	0.0 (0.7)	0.0 (1.3)	0.2 (0.8)
North Central	0.0 (0.6)	0.0 (1.3)	0.1 (0.8)
South	0.1 (0.5)	0.0 (1.1)	0.1 (0.7)
West	0.0 (0.8)	0.0 (1.5)	0.1 (1.0)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	65-69	70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

NEONATOLOGY (DRGs 385-391) IS NOT INCLUDED IN THE TABLES.

Gynecology
DRG(s): 353-365, 369-384

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.2 (0.2)	1.3 (1.2)	4.0 (0.8)
Northeast	0.2 (0.4)	3.0 (2.7)	5.4 (1.7)
North Central	0.2 (0.4)	0.1 (2.3)	2.9 (1.6)
South	0.2 (0.3)	1.5 (1.9)	5.1 (1.4)
West	0.1 (0.4)	0.5 (2.7)	1.8 (2.0)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.1)	0.0 (0.9)	0.0 (0.7)
Northeast	0.0 (0.[illegible])	0.0 (1.9)	0.0 (1.5)
North Central	0.0 (0.1)	0.0 (1.7)	0.0 (1.3)
South	0.0 (0.1)	0.0 (1.4)	0.0 (1.1)
West	0.0 (0.2)	0.0 (2.1)	0.0 (1.6)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

Psychiatry
DRG(s): 425-437

RISK-ADJUSTED EXPECTED DEATH RATES

NORMS
%
(% ERROR)

Region	With CCs Age <65	 65-69	 70+
U.S.	0.3 (0.3)	1.4 (0.9)	2.5 (0.5)
Northeast	0.2 (0.6)	1.7 (2.1)	3.2 (1.2)
North Central	0.1 (0.4)	0.9 (1.7)	1.4 (1.0)
South	0.5 (0.5)	1.5 (1.5)	3.2 (0.9)
West	0.2 (0.6)	1.8 (2.2)	2.0 (1.3)

Region	Without CCs Age <65	 65-69	 70+
U.S.	0.0 (0.2)	0.1 (0.9)	0.4 (0.6)
Northeast	0.0 (0.5)	0.3 (2.2)	0.1 (1.3)
North Central	0.0 (0.3)	0.0 (1.7)	0.2 (1.1)
South	0.0 (0.3)	0.0 (1.4)	0.8 (0.9)
West	0.0 (0.4)	0.0 (2.5)	0.2 (1.5)

ACTUAL DEATH RATES

PROVIDER

	With CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

	Without CCs Age <65	 65-69	 70+
No. of Patients Who Died / Total No. Patients	÷	÷	÷
	=	=	=
% Patients Who Died			

DRGs 438, 456, AND 467-470 ARE EXCLUDED FROM THE PHYSICIAN SPECIALTY TABLES BECAUSE THEY ARE NO LONGER USED, ARE COMPRISED OF DELETED PATIENTS AND/OR DO NOT CORRESPOND TO ANY SPECIALTY.

APPENDICES

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APPENDIX 1

DEFINITION OF PROGRAM INTENSITY INDEX AND CENSUS REGION INCLUSIONS

CALCULATION OF PROGRAM INTENSITY INDEX

The Program Intensity Index (lp) of Phillip and Hai (1976) is used to place hospitals in one of three levels of teaching status. The formula is presented below.

$$lp = 9.9\ (\text{JCA}) + 14.0\ (\text{CP}) + 28.0\ (\text{RES}) + 14.7\ (\text{MS}) + 13.3\ (\text{PNS}) + 20.1\ (\text{COT})$$

JCA: Accreditation by Joint Commission on Accreditation of Hospitals

CP: Cancer Program approved by American College of Surgeons

RES: Residency approved by American Medical Association

MS: Medical School Affiliation reported by American Medical Association

PNS: Hospital-controlled professional nursing school, reported by National League for Nursing

COT: Member of Council of Teaching Hospitals of the Association of American Medical Colleges

The numerical values in the formula are weights that have been assigned to each of the approvals incorporated in the index.

In the two million patient sample, the following cut-offs are used to stratify hospitals by teaching status.

lp value under 25.0	Nonteaching Institution
lp value 25.0-74.9	Minor Teaching Institution
lp value 75.0+	Major Teaching Institution

STATE INCLUSIONS BY REGION

Northeast

Connecticut
Maine
Massachusetts
New Hampshire
New Jersey
New York
Pennsylvania
Rhode Island
Vermont

North Central

Illinois
Indiana
Iowa
Kansas
Michigan
Minnesota
Missouri
Nebraska
North Dakota
Ohio
South Dakota
Wisconsin

South

Alabama
Arkansas
Delaware
District of Columbia
Florida
Georgia
Kentucky
Louisiana
Maryland
Mississippi
North Carolina
Oklahoma
South Carolina
Tennessee
Texas
Virginia
West Virginia

West

Alaska
Arizona
California
Colorado
Hawaii
Idaho
Montana
Nevada
New Mexico
Oregon
Utah
Washington
Wyoming

APPENDIX 2

HOSPITAL UNIVERSE STRATIFICATION MATRIX

HOSPITAL UNIVERSE STRATIFICATION MATRIX

CENSUS DIVISION	TEACH. STATUS	HOSPITAL OWNERSHIP																			
		Gov., Nonfed., in Large Cities					Gov., Nonfed., Not in Large Cities					Nongov., Not-for-Profit					Nongov., For Profit				
		BEDSIZE					BEDSIZE					BEDSIZE					BEDSIZE				
		6-99	100-199	200-399	400-499	500 +	6-99	100-199	200-399	400-499	500 +	6-99	100-199	200-399	400-499	500 +	6-99	100-199	200-399	400-499	500 +
NEW ENGLAND	NON																				
	MINOR																				
	MAJOR																				
MIDDLE ATLANTIC	NON																				
	MINOR																				
	MAJOR																				
EAST NORTH CENTRAL	NON																				
	MINOR																				
	MAJOR																				
WEST NORTH CENTRAL	NON																				
	MINOR																				
	MAJOR																				
SOUTH ATLANTIC	NON																				
	MINOR																				
	MAJOR																				
EAST SOUTH CENTRAL	NON																				
	MINOR																				
	MAJOR																				
WEST SOUTH CENTRAL	NON																				
	MINOR																				
	MAJOR																				
MOUNTAIN	NON																				
	MINOR																				
	MAJOR																				
PACIFIC	NON																				
	MINOR																				
	MAJOR																				

APPENDIX 3

DRG CLUSTER GROUPINGS, CORRESPONDING ENGLISH DESCRIPTIONS, AND DRGS

DRG CLUSTER GROUPINGS, CORRESPONDING ENGLISH DESCRIPTIONS, AND DRGS

DRG Cluster	English Description	DRGs
1	Craniotomy, Age >17 Except for Trauma	1
2	Craniotomy for Trauma Age >17	2
3	Craniotomy Age <18	3
4	Spinal Procedures	4
5	Extracranial Vascular Procedures	5
6	Carpal Tunnel Release	6
7	Peripheral & Cranial Nerve & Other Nerve System Procedures	7, 8
8	Spinal Disorders & Injuries	9
9	Nervous System Neoplasms	10, 11
10	Degenerative Nervous System Disorders	12
11	Multiple Sclerosis and Cerebellar Ataxia	13
12	Cerebrovascular Disorders Except TIA	14
13	Transient Ischemic Attacks	15
14	Nonspecific Cerebrovascular Disorders	16, 17
15	Cranial & Peripheral Nerve Disorders	18, 19
16	Nervous System Infection Except Viral Meningitis	20
17	Viral Meningitis	21
18	Hypertensive Encephalopathy	22
19	Nontraumatic Stupor & Coma	23
20	Seizure and Headache	24, 25, 26
21	Traumatic Stupor & Coma, Coma >1 Hour	27
22	Traumatic Stupor & Coma, Coma <1 Hour	28, 29, 30
23	Concussion	31, 32, 33
24	Other Disorders of Nervous System	34, 35
25	Retinal Procedures	36
26	Orbital Procedures	37
27	Primary Iris Procedures	38
28	Lens Procedures w or w/o Vitrectomy	39
29	Extraocular Procedures Except Orbit	40, 41
30	Intraocular Procedures Except Retina, Iris & Lens	42
31	Hyphema	43
32	Acute Major Eye Infections	44
33	Neurological Eye Disorders	45
34	Other Disorders of Eye	46, 47, 48
35	Major Head & Neck Procedures	49
36	Sialoadenectomy	50
37	Salivary Gland Procedures Except Sialoadenectomy	51
38	Cleft Lip & Palate Repair	52
39	Sinus & Mastoid Procedures	53, 54
40	Miscellaneous Ear, Nose & Throat Procedures	55
41	Rhinoplasty	56
42	T&A Proc. Except Tonsillectomy & Adenoidectomy	57, 58
43	Tonsillectomy & Adenoidectomy Procedures	59, 60
44	Myringotomy w/ Tube Insertion	61, 62
45	Other Ear, Nose, & Throat O.R. Procedures	63
46	Ear, Nose, & Throat Malignancy	64
47	Dysequilbrium	65

DRG Cluster	English Description	DRGs
48	Epistaxis	66
49	Epiglottitis	67
50	Otitis Media & URI	68, 69, 70
51	Laryngotracheitis	71
52	Nasal Trauma & Deformity	72
53	Other Ear, Nose, & Throat Diagnoses	73, 74
54	Major Chest Procedures	75
55	Other Respiratory System O.R. Procedures	76, 77
56	Pulmonary Embolism	78
57	Resp. Infections & Inflammations	79, 80, 81
58	Respiratory Neoplasms	82
59	Major Chest Trauma	83, 84
60	Pleural Effusion	85, 86
61	Pulmonary Edema & Respiratory Failure	87
62	Chronic Obstructive Pulmonary Disease	88
63	Simple Pneumonia & Pleurisy	89, 90, 91
64	Interstitial Lung Disease	92, 93
65	Pneumothorax	94, 95
66	Bronchitis & Asthma	96, 97, 98
67	Respiratory Signs & Symptoms	99, 100
68	Other Respiratory System Dxs	101, 102
69	Heart Transplant	103
70	Cardiac Valve Procedures w/ Pump & w/ Cardiac Cath.	104
71	Cardiac Valve Procedures w/ Pump & w/o Cardiac Cath.	105
72	Coronary Bypass w/ Cardiac Cath.	106
73	Coronary Bypass w/o Cardiac Cath.	107
74	Other Cardiothoracic or Vascular Procedures w/ Pump	108
75	Other Cardiothoracic Procedures w/o Pump	109
76	Major Reconstructive Vascular Procedures w/o Pump	110, 111
77	Vascular Procedures Except Major Reconstruction w/o Pump	112
78	Amputation for Circ System Disorders Except Upper Limb & Toe	113
79	Upper Limb & Toe Amputation for Circ System Disorders	114
80	Perm Cardiac Pacemaker Implant w/ AMI, Heart Failure or Shock	115
81	Perm Cardiac Pacemaker Implant w/o AMI, Heart Failure or Shock	116
82	Cardiac Pacemaker Replace & Revis Except Pulse Generator Replacement	117
83	Cardiac Pacemaker Pulse Generator Replacement	118
84	Vein Ligation & Stripping	119
85	Other Circulatory System O. R. Procedures	120
86	Circulatory Disorders w/ AMI	121, 122, 123

DRG Cluster	English Description	DRGs
87	Circulatory Disorders Except AMI, w/ Cardiac Cath. w/ Complex Dxs	124
88	Circulatory Disorders Except AMI, w/ Cardiac Cath. w/o Complex Dxs	125
89	Acute & Subacute Endocarditis	126
90	Heart Failure & Shock	127
91	Deep Vein Thrombophlebitis	128
92	Cardiac Arrest, Unexplained	129
93	Peripheral Vascular Disorders	130, 131
94	Atherosclerosis	132, 133
95	Hypertension	134
96	Cardiac Congenital & Valvular Disorders	135, 136, 137
97	Cardiac Arrhythmia & Conduction Disorders	138, 139
98	Angina Pectoris	140
99	Syncope & Collapse	141, 142
100	Chest Pain	143
101	Other Circulatory System Dxs	144, 145
102	Rectal Resection	146, 147
103	Major Small & Large Bowel Procedures	148, 149
104	Peritoneal Adhesiolysis	150, 151
105	Minor Small & Large Bowel Procedures	152, 153
106	Stomach, Esophageal, & Duodenal Procedures	154, 155, 156
107	Anal & Stomach Procedures	157, 158
108	Hernia Procedures Except Inguinal & Femoral, Ages 18+	159, 160
109	Inguinal & Femoral Hernia Procedures, Ages Ages 18+	161, 162
110	Hernia Procedures, Ages 0-17	163
111	Appendectomy w/ Complicated Prin. Dx	164, 165
112	Appendectomy w/o Complicated Prin. Dx	166, 167
113	Mouth Procedures	168, 169
114	Other Digestive System O.R. Procedures	170, 171
115	Digestive Malignancy	172, 173
116	G.I. Hemorrhage	174, 175
117	Complicated Peptic Ulcer	176
118	Uncomplicated Peptic Ulcer	177, 178
119	Inflammatory Bowel Disease	179
120	G.I. Obstruction	180, 181
121	Esophagitis, Gastroent. & Misc. Digestive Disorders	182, 183, 184
122	Dental & Oral Disorders Except Extractions & Restorations	185, 186
123	Dental Extractions & Restorations	187
124	Other Digestive System Dxs	188, 189, 190
125	Major Pancreas, Liver, & Shunt Procedures	191
126	Minor Pancreas, Liver, & Shunt Procedures	192
127	Biliary Tract Procedures Except Total Cholecystectomy	193, 194
128	Total Cholecystectomy w/ C.D.E.	195, 196
129	Total Cholecystectomy w/o C.D.E.	197, 198

DRG Cluster	English Description	DRGs
130	Hepatobiliary Diagnostic Procedure for Malignancy	199
131	Hepatobiliary Diagnostic Procedure for Non-Malignancy	200
132	Other Hepatobiliary or Pancreas O.R. Procedures	201
133	Cirrhosis & Alcoholic Hepatitis	202
134	Malignancy of Hepatobiliary System or Pancreas	203
135	Disorders of Pancreas Except Malignancy	204
136	Disorders of Liver Except Malignancy, Cirrhosis, Alcoholic Hepatitis	205, 206
137	Disorders of Biliary Tract	207, 208
138	Major Joint and Limb Attachment Procedures	209
139	Hip & Femur Procedures Except Major Joint	210, 211, 212
140	Amputations for Musculoskeletal System & Conn. Tissue Disorders	213
141	Back & Neck Procedures	214, 215
142	Biopsies of Musculoskeletal System & Connective Tissue	216
143	Wound Debridement & Skin Graft Except Hand, for Musculoskeletal & Conn. Tissue Dis.	217
144	Lower Extrem. & Humer Procedures Except Hip, Foot, Femur	218, 219, 220
145	Knee Procedures	221, 222
146	Major Shoulder/Elbow Procedures or Other Upper Extremity Procedures w/ CCs	223
147	Shoulder, Elbow, or Forearm Procedures Except Major Joint Procedures w/o CCs	224
148	Foot Procedures	225
149	Soft Tissue Procedures	226, 227
150	Major Thumb or Joint Procedures, or Other Hand or Wrist Procedures w/ CCs	228
151	Hand or Wrist Procedures Except Major Joint Procedures w/o CCs	229
152	Local Excision & Removal of Int. Fix. Devices of Hip & Femur	230
153	Local Excision & Removal of Int. Fix. Devices Except Hip & Femur	231
154	Arthroscopy	232
155	Other Musculoskeletal System & Conn. Tiss. O.R. Procedures	233, 234
156	Fractures of Femur	235
157	Fractures of Hip & Pelvis	236
158	Sprains, Strains, & Dislocations of Hip, Pelvis, & Thigh	237
159	Osteomyelitis	238

DRG Cluster	English Description	DRGs
160	Path Fractures & Musculoskeletal & Conn. Tissue Malignancy	239
161	Connective Tissue Disorders	240, 241
162	Septic Arthritis	242
163	Medical Back Problems	243
164	Bone Diseases & Specific Arthropathies	244, 245
165	Non-Specific Arthropathies	246
166	Signs & Symptoms of Musculoskeletal System & Conn. Tissue	247
167	Tendonitis, Myositis, & Bursitis	248
168	Aftercare, Musculoskeletal System & Connective Tissue	249
169	Fx. Sprns., Strns., & Disl. of Forearm, Hand, Foot	250, 251, 252
170	Fx. Sprns., Strns., & Disl. of Up Arm, Low Leg, Except Foot	253, 254, 255
171	Other Dxs of Musculoskeletal System & Conn. Tiss.	256
172	Total Mastectomy for Malignancy	257, 258
173	Subtotal Mastectomy for Malignancy	259, 260
174	Breast Procedures for Non-Malig. Except Biopsy & Loc. Excision	261
175	Breast Biopsy & Local Excision for Non-Malignancy	262
176	Skin Grafts &/or Debridement for Skin Ulcer or Cellulitis	263, 264
177	Skin Graft &/or Debridement Except for Skin Ulcer or Cellulitis	265, 266
178	Perianal & Pilonidal Procedures	267
179	Skin, Subcutaneous Tiss. & Breast Plastic Procedures	268
180	Other Skin, Subcut. Tiss. & Breast O.R. Procedures	269, 270
181	Skin Ulcers	271
182	Major Skin Disorders	272, 273
183	Malignant Breast Disorders	274, 275
184	Non-Malignant Breast Disorders	276
185	Cellulitis	277, 278, 279
186	Trauma to Skin, Subcut. Tiss. & Breast	280, 281, 282
187	Minor Skin Disorders	283, 284
188	Amputation of Lower Limb for Endocrine, Nutritional & Metabolic Disorders	285
189	Adrenal & Pituitary Procedures	286
190	Skin Grafts & Wound Debridement, Endoc., Nutrit., & Meta. Disorders	287
191	O.R. Procedures for Obesity	288
192	Parathyroid Procedures	289
193	Thyroid Procedures	290
194	Thyroglossal Procedures	291

DRG Cluster	English Description	DRGs
195	Other Endocrine, Nutrit., & Meta. O.R. Procedures	292, 293
196	Diabetes	294, 295
197	Nutritional & Misc. Metabolic Disorders	296, 297, 298
198	Inborn Errors of Metabolism	299
199	Endocrine Disorders	200, 301
200	Kidney Transplant	302
201	Kidney, Ureter, & Major Bladder Procedures for Neoplasm	303
202	Kidney, Ureter, & Major Bladder Procedures for Non-Neoplasm	304, 305
203	Prostatectomy	306, 307
204	Minor Bladder Procedures	
205	Transurethral Procedures	310, 311
206	Urethral Procedures	312, 312, 313
207	Other Kidney & Urinary Tract O.R. Procedures	315
208	Renal Failure	316
209	Admit for Renal Dialysis	317
210	Kidney & Urinary Tract Neoplasms	318, 319
211	Kidney & Urinary Tract Infections	320, 321, 322
212	Urinary Stones, &/or ESW Lithotripsy	323, 324
213	Kidney & Urinary Tract Signs & Symptoms	325, 326, 327
214	Urethral Stricture	328, 329, 330
215	Other Kidney & Urinary Tract Dxs	331, 332, 333
216	Major Male Pelvic Procedures	334, 335
217	Transurethral Prostatectomy	336, 337
218	Testes Procedures for Malignancy	338
219	Testes Procedures for Non-Malignancy	339, 340
220	Penis Procedures	341
221	Circumcision	342, 343
222	Other Male Repro. System O.R. Procedures for Malignancy	344
223	Other Male Repro. System O.R. Procedures Except for Malignancy	345
224	Malignancy, Male Repro. System	346, 347
225	Benign Prostatic Hypertrophy	348, 349
226	Inflammation of Male Repro. System	350
227	Sterilization, Male	351
228	Other Male Repro. System Dxs	352
229	Pelvis Evisceration, Radical Hysterectomy, & Radical Vulvectomy	353
230	Uterine & Adnexa Procedures for Non-Ovarian/Adnexal Malignancy	354, 355
231	Female Repro. System for Reconstructive Procedures	356
232	Uterine & Adnexa Procedures for Ovarian or Adnexal Malignancy	357
233	Uterine & Adnexa Procedures for Non-Malignancy	358, 359

DRG Cluster	English Description	DRGs
234	Vagina, Cervix, & Vulva Procedures	360
235	Laparoscopy & Incisional Tubal Interruption	361
236	Endoscopic Tubal Interruption	362
237	D&C, Conization & Radio-Implant for Malignancy	363
238	D&C, Conization Except for Malignancy	364
239	Other Female Repro. System O.R. Procedures	365
240	Malignancy, Female Repro. System	366, 367
241	Infections, Female Repro. System	368
242	Menstrual & Other Female Repro. System Disorders	369
243	Cesarean Section	370, 371
244	Vaginal Delivery w/ Complicating Dxs	372
245	Vaginal Delivery w/o Complicating Dxs	373
246	Vaginal Delivery w/ Sterilization &/or D&C	374
247	Vaginal Delivery w/o O.R. Procedures Except Steril. &/or D&C	375
248	Postpartum & Postabortion Dxs w/o O.R. Procedures	376
249	Postpartum & Postabortion Dxs w/ O.R. Procedures	377
250	Ectopic Pregnancy	378
251	Threatened Abortion	379
252	Abortion w/o D&C	380
253	Abortion w/ D&C, Aspiration Curettage, or Hysterotomy	381
254	False Labor	382
255	Other Antepartum Dxs w/ Medical Complications	383
256	Other Antepartum Dxs w/o Medical Complications	384
257	Neonates, Died or Transferred to Another Acute Care Facility	385
258	Extreme Immaturity or Resp. Distress Syndrome, Neonate	386
259	Prematurity w/ Major Problems	387
260	Prematurity w/o Major Problems	388
261	Full Term Neonate w/ Major Problems	389
262	Neonates w/ Other Significant Problems	390
263	Normal Newborns	391
264	Splenectomy	392, 393
265	Other O.R. Procedures of Blood & Blood Forming Organs	394
266	Red Blood Cell Disorders	395, 396
267	Coagulation Disorders	397
268	Reticuloendothelial & Immunity Disorders	398, 399
269	Lymphoma & Leukemia w/ Major O.R. Procedures	400
270	Lymphoma & Non-Acute Leukemia w/ Other Procedures	401, 402

DRG Cluster	English Description	DRGs
271	Lymphoma & Non-Acute Leukemia	403, 440
272	Acute Leukemia w/o Major O.R. Procedures	405, 473
273	Myeloprolif. Disorders or Poorly Diff. Neoplasm w/ Major O.R. Procedures	406, 407
274	Myeloprolif. Disorders or Poorly Diff. Neoplasm w/ Other O.R. Procedures	408
275	Radiotherapy	409
276	Chemotherapy	410
277	History of Malignancy w/o Endoscopy	411
278	History of Malignancy w/ Endoscopy	412
279	Other Myeloprolif. Disorders or Poorly Diff. Neoplasm Dxs	413, 414
280	O.R. Procedures for Infectious & Parasitic Diseases	415
281	Septicemia	416, 417
282	Postoperative & Post-Trauma Infections	418
283	Fever of Unknown Origin, Ages 18+	419, 420
284	Viral Illness, Age >17	421
285	Viral Illness & Fever of Unknown Origin, Age <18	422
286	Other Infections & Parasitic Disease Dxs	423
287	O.R. Procedures w/ Prin. Dx of Mental Illness	424
288	Acute Adjust. React. & Disturbances of of Psychosocial Dysfunction	425
289	Depressive Neuroses	426
290	Neuroses Except Depressive	427
291	Disorders of Personality & Impulse Control	428
292	Organic Disturbances & Mental Retardation	429
293	Psychoses	430
294	Childhood Mental Disorders	431
295	Other Dxs of Mental Disorders	432
296	Alcohol/Drug Use & Induced Organic Mental Disorders, Left AMA	433
297	Alcohol/Drug Abuse, Intox. Induced Mental Syn. Except Depend. &/or Other Symptomatic Treatment	434
298	Alcohol/Drug Dependence, Detox. &/or Other Symptomatic Treatment	435
299	Alcohol/Drug Dependence w/ Rehab. Therapy	436
300	Alcohol/Drug Dependence, Combined Rehab. & Detox. Therapy	437
301	No Longer Valid	438
302	Skin Grafts for Injuries	439
303	Wound Debridements for Injuries	440
304	Hand Procedures for Injuries	441
305	Other O.R. Procedures for Injuries	442, 443
306	Multiple Trauma	444, 445, 446
307	Allergic Reactions	447, 448
308	Poisoning, & Toxic Effects of Drugs	449, 450, 451

DRG Cluster	English Description	DRGs
309	Complications of Treatment	452, 453
310	Other Injuries, Poisonings, & Toxic Eff Dxs	454, 455
311	Burns, Transferred to Another Acute Care Facility	456
312	Extensive Burns w/o O.R. Procedures	457
313	Non-Extensive Burns w/ Skin Grafts	458
314	Non-Extensive Burns w/ Wound Debridement or Other O.R. Procedures	459
315	Non-Extensive Burns w/o O.R. Procedures	460
316	O.R. Procedures w/ Dxs of Other Contact w/ Health Services	461
317	Rehabilitation	462
318	Signs & Symptoms	463, 464
319	Aftercare w/ Hist. of Malignancy as Secondary Dx	465
320	Aftercare w/o Hist. of Malignancy as Secondary Dx	466
321	Other Factors Influencing Health Status	467
322	Unrelated O.R. Procedures	468
323	Prin. Dx Invalid as Discharge Dx	469
324	Ungroupable	470
325	Bilateral or Multiple Major Joint Procedures of Lower Extrem.	471
326	Extensive Burns w/ O.R. Procedures	472

APPENDIX 4

PHYSICIAN SPECIALTIES AND CORRESPONDING DRGS

PHYSICIAN SPECIALTIES AND CORRESPONDING DRGS

Physician Specialty	DRGs
1. Neurosurgery	1-4, 7-8, 27-30
2. Vascular Surgery	5, 110-112, 119-120
3. General Surgery	6, 113-114, 146-167, 170-171, 191-198, 201 213, 216-217, 226-229, 233-234, 257-271, 280-282, 285-293, 342-343, 392-394, 400-401, 415, 424, 439-446, 456-460, 472
4. Internal Medicine	9, 12-25, 31-32, 34-35, 65-66, 68-69, 73, 78-80, 85-90, 92-97, 99-102, 121-136, 138-145, 174-183, 188-189, 199-200, 202, 204-208, 238, 240-249, 272-273, 276-278, 283-284, 294-297, 300-301, 316-317, 320-321, 323-326, 331-332, 348-350, 352, 368, 395, 397-399, 409, 411-412, 416, 418-421, 423, 447, 449-450, 452-455, 461-470
5. Oncology	10-11, 64, 82, 172-173, 203, 274-275, 318-319, 346-347, 366-367, 402-408, 410, 413-414, 473
6. Pediatrics	26, 33, 67, 70-71, 74, 81, 91, 98, 137, 184, 190, 279, 298-299, 322, 327, 330, 333, 396, 417, 422, 448, 451
7. Ophthalmology	36-48
8. Ear, Nose & Throat	49-63, 72, 169
9. Cardiothoracic Surgery	75-77, 83-84, 103-109, 115-118
10. Dentistry	168, 185-187

Physician Specialty	DRGs
11. Orthopedics	209-212, 214-215, 218-225, 230-232, 235-237, 239, 250-256, 471
12. Urology	302-315, 328-329, 334-341, 344-345, 351
13. Neonatology (not included in the tables)	385-391
14. Gynecology	353-365, 369-384
15. Psychiatry	425-437

APPENDIX 5

HEALTH CARE FINANCING ADMINISTRATION (HCFA) DEFINED COMPLICATIONS AND COMORBIDITIES

HEALTH CARE FINANCING ADMINISTRATION (HCFA) DEFINED COMPLICATIONS AND COMORBIDITIES

This list consists of ICD-9-CM diagnosis codes which represent substantial complications and comorbidities when present as secondary diagnoses, as defined by HCFA.

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APPENDIX 6

ERROR RANGE TABLES

ERROR RANGE TABLES

PERCENT	Patient Number										
DIED	5	10	15	20	25	30	35	40	45	50	55	60
1%	13.35	9.44	7.71	6.67	5.97	5.45	5.05	4.72	4.45	4.22	4.02	3.85
2%	18.78	13.28	10.84	9.39	8.40	7.67	7.10	6.64	6.26	5.94	5.66	5.42
3%	22.89	16.18	13.21	11.44	10.24	9.34	8.65	8.09	7.63	7.24	6.90	6.61
4%	26.29	18.59	15.18	13.15	11.76	10.73	9.94	9.30	8.76	8.31	7.93	7.59
5%	29.24	20.68	16.88	14.62	13.08	11.94	11.05	10.34	9.75	9.25	8.82	8.44
6%	31.86	22.53	18.40	15.93	14.25	13.01	12.04	11.26	10.62	10.08	9.61	9.20
7%	34.23	24.21	19.76	17.12	15.31	13.97	12.94	12.10	11.41	10.82	10.32	9.88
8%	36.40	25.74	21.01	18.20	16.28	14.86	13.76	12.87	12.13	11.51	10.97	10.51
9%	38.40	27.15	22.17	19.20	17.17	15.67	14.51	13.57	12.80	12.14	11.58	11.08
10%	40.25	28.46	23.24	20.12	18.00	16.43	15.21	14.23	13.42	12.73	12.14	11.62
11%	41.98	29.68	24.24	20.99	18.77	17.14	15.87	14.84	13.99	13.27	12.66	12.12
12%	43.60	30.83	25.17	21.80	19.50	17.80	16.48	15.41	14.53	13.79	13.15	12.59
13%	45.12	31.90	26.05	22.56	20.18	18.42	17.05	15.95	15.04	14.27	13.60	13.02
14%	46.55	32.92	26.88	23.28	20.82	19.01	17.60	16.46	15.52	14.72	14.04	13.44
15%	47.91	33.87	27.66	23.95	21.42	19.56	18.11	16.94	15.97	15.15	14.44	13.83
16%	49.19	34.78	28.40	24.59	22.00	20.08	18.59	17.39	16.40	15.55	14.83	14.20
17%	50.40	35.64	29.10	25.20	22.54	20.57	19.05	17.82	16.80	15.94	15.20	14.55
18%	51.54	36.45	29.76	25.77	23.05	21.04	19.48	18.22	17.18	16.30	15.54	14.88
19%	52.63	37.22	30.39	26.32	23.54	21.49	19.89	18.61	17.54	16.64	15.87	15.19
20%	53.67	37.95	30.98	26.83	24.00	21.91	20.28	18.97	17.89	16.97	16.18	15.49
21%	54.65	38.64	31.55	27.32	24.44	22.31	20.65	19.32	18.22	17.28	16.48	15.77
22%	55.58	39.30	32.09	27.79	24.85	22.69	21.01	19.65	18.53	17.57	16.76	16.04
23%	56.46	39.92	32.60	28.23	25.25	23.05	21.34	19.96	18.82	17.85	17.02	16.30
24%	57.30	40.52	33.08	28.65	25.62	23.39	21.66	20.26	19.10	18.12	17.28	16.54
25%	58.09	41.08	33.54	29.05	25.98	23.72	21.96	20.54	19.36	18.37	17.52	16.77
26%	58.85	41.61	33.98	29.42	26.32	24.02	22.24	20.81	19.62	18.61	17.74	16.99
27%	59.56	42.12	34.39	29.78	26.64	24.32	22.51	21.06	19.85	18.84	17.96	17.19
28%	60.24	42.60	34.78	30.12	26.94	24.59	22.77	21.30	20.08	19.05	18.16	17.39
29%	60.88	43.05	35.15	30.44	27.23	24.85	23.01	21.52	20.29	19.25	18.36	17.57
30%	61.48	43.47	35.50	30.74	27.50	25.10	23.24	21.74	20.49	19.44	18.54	17.75
31%	62.05	43.88	35.82	31.02	27.75	25.33	23.45	21.94	20.68	19.62	18.71	17.91
32%	62.58	44.25	36.13	31.29	27.99	25.55	23.65	22.13	20.86	19.79	18.87	18.07
33%	63.09	44.61	36.42	31.54	28.21	25.75	23.84	22.30	21.03	19.95	19.02	18.21
34%	63.55	44.94	36.69	31.78	28.42	25.95	24.02	22.47	21.18	20.10	19.16	18.35
35%	63.99	45.25	36.95	32.00	28.62	26.12	24.19	22.62	21.33	20.24	19.29	18.47
36%	64.40	45.54	37.18	32.20	28.80	26.29	24.34	22.77	21.47	20.36	19.42	18.59
37%	64.77	45.80	37.40	32.39	28.97	26.44	24.48	22.90	21.59	20.48	19.53	18.70
38%	65.12	46.05	37.60	32.56	29.12	26.59	24.61	23.02	21.71	20.59	19.63	18.80
39%	65.44	46.27	37.78	32.72	29.26	26.72	24.73	23.14	21.81	20.69	19.73	18.89
40%	65.73	46.48	37.95	32.86	29.39	26.83	24.84	23.24	21.91	20.78	19.82	18.97
41%	65.99	46.66	38.10	32.99	29.51	26.94	24.94	23.33	22.00	20.87	19.90	19.05
42%	66.22	46.82	38.23	33.11	29.61	27.03	25.03	23.41	22.07	20.94	19.97	19.12
43%	66.42	46.97	38.35	33.21	29.70	27.12	25.10	23.48	22.14	21.00	20.03	19.17
44%	66.60	47.09	38.45	33.30	29.78	27.19	25.17	23.55	22.20	21.06	20.08	19.22
45%	66.75	47.20	38.54	33.37	29.85	27.25	25.23	23.60	22.25	21.11	20.12	19.27
46%	66.87	47.28	38.61	33.43	29.90	27.30	25.27	23.64	22.29	21.15	20.16	19.30
47%	66.96	47.35	38.66	33.48	29.95	27.34	25.31	23.67	22.32	21.17	20.19	19.33
48%	67.03	47.40	38.70	33.51	29.98	27.36	25.33	23.70	22.34	21.20	20.21	19.35
49%	67.07	47.42	38.72	33.53	29.99	27.38	25.35	23.71	22.36	21.21	20.22	19.36
50%	67.08	47.43	38.73	33.54	30.00	27.39	25.35	23.72	22.36	21.21	20.23	19.36

PERCENT	Patient Number											
DIED	65	70	75	80	85	90	95	100	105	110	115	120
1%	3.70	3.57	3.45	3.34	3.24	3.15	3.06	2.98	2.91	2.85	2.78	2.72
2%	5.21	5.02	4.85	4.70	4.56	4.43	4.31	4.20	4.10	4.00	3.92	3.83
3%	6.35	6.12	5.91	5.72	5.55	5.39	5.25	5.12	4.99	4.88	4.77	4.67
4%	7.29	7.03	6.79	6.57	6.38	6.20	6.03	5.88	5.74	5.61	5.48	5.37
5%	8.11	7.81	7.55	7.31	7.09	6.89	6.71	6.54	6.38	6.23	6.10	5.97
6%	8.84	8.52	8.23	7.97	7.73	7.51	7.31	7.12	6.95	6.79	6.64	6.50
7%	9.49	9.15	8.84	8.56	8.30	8.07	7.85	7.65	7.47	7.30	7.14	6.99
8%	10.09	9.73	9.40	9.10	8.83	8.58	8.35	8.14	7.94	7.76	7.59	7.43
9%	10.65	10.26	9.91	9.60	9.31	9.05	8.81	8.59	8.38	8.19	8.01	7.84
10%	11.16	10.76	10.39	10.06	9.76	9.49	9.23	9.00	8.78	8.58	8.39	8.22
11%	11.64	11.22	10.84	10.49	10.18	9.89	9.63	9.39	9.16	8.95	8.75	8.57
12%	12.09	11.65	11.26	10.90	10.57	10.28	10.00	9.75	9.51	9.30	9.09	8.90
13%	12.51	12.06	11.65	11.28	10.94	10.63	10.35	10.09	9.85	9.62	9.41	9.21
14%	12.91	12.44	12.02	11.64	11.29	10.97	10.68	10.41	10.16	9.93	9.71	9.50
15%	13.29	12.80	12.37	11.98	11.62	11.29	10.99	10.71	10.45	10.21	9.99	9.78
16%	13.64	13.15	12.70	12.30	11.93	11.59	11.28	11.00	10.73	10.49	10.26	10.04
17%	13.98	13.47	13.01	12.60	12.22	11.88	11.56	11.27	11.00	10.74	10.51	10.29
18%	14.30	13.78	13.31	12.89	12.50	12.15	11.83	11.53	11.25	10.99	10.75	10.52
19%	14.60	14.07	13.59	13.16	12.77	12.41	12.07	11.77	11.49	11.22	10.97	10.74
20%	14.88	14.34	13.86	13.42	13.02	12.65	12.31	12.00	11.71	11.44	11.19	10.95
21%	15.16	14.60	14.11	13.66	13.25	12.88	12.54	12.22	11.92	11.65	11.39	11.15
22%	15.41	14.85	14.35	13.89	13.48	13.10	12.75	12.43	12.13	11.85	11.59	11.34
23%	15.66	15.09	14.58	14.12	13.69	13.31	12.95	12.62	12.32	12.04	11.77	11.52
24%	15.89	15.31	14.79	14.32	13.90	13.51	13.15	12.81	12.50	12.22	11.95	11.70
25%	16.11	15.53	15.00	14.52	14.09	13.69	13.33	12.99	12.68	12.39	12.11	11.86
26%	16.32	15.73	15.19	14.71	14.27	13.87	13.50	13.16	12.84	12.55	12.27	12.01
27%	16.52	15.92	15.38	14.89	14.45	14.04	13.66	13.32	13.00	12.70	12.42	12.16
28%	16.71	16.10	15.55	15.06	14.61	14.20	13.82	13.47	13.15	12.84	12.56	12.30
29%	16.88	16.27	15.72	15.22	14.77	14.35	13.97	13.61	13.28	12.98	12.69	12.43
30%	17.05	16.43	15.87	15.37	14.91	14.49	14.10	13.75	13.42	13.11	12.82	12.55
31%	17.21	16.58	16.02	15.51	15.05	14.63	14.24	13.87	13.54	13.23	12.94	12.67
32%	17.36	16.73	16.16	15.65	15.18	14.75	14.36	13.99	13.66	13.34	13.05	12.77
33%	17.50	16.86	16.29	15.77	15.30	14.87	14.47	14.11	13.77	13.45	13.15	12.88
34%	17.63	16.99	16.41	15.89	15.41	14.98	14.58	14.21	13.87	13.55	13.25	12.97
35%	17.75	17.10	16.52	16.00	15.52	15.08	14.68	14.31	13.96	13.64	13.34	13.06
36%	17.86	17.21	16.63	16.10	15.62	15.18	14.77	14.40	14.05	13.73	13.43	13.15
37%	17.97	17.31	16.72	16.19	15.71	15.27	14.86	14.48	14.14	13.81	13.51	13.22
38%	18.06	17.40	16.81	16.28	15.79	15.35	14.94	14.56	14.21	13.88	13.58	13.29
39%	18.15	17.49	16.90	16.36	15.87	15.42	15.01	14.63	14.28	13.95	13.64	13.36
40%	18.23	17.57	16.97	16.43	15.94	15.49	15.08	14.70	14.34	14.01	13.70	13.42
41%	18.30	17.64	17.04	16.50	16.00	15.55	15.14	14.75	14.40	14.07	13.76	13.47
42%	18.37	17.70	17.10	16.55	16.06	15.61	15.19	14.81	14.45	14.12	13.81	13.52
43%	18.42	17.75	17.15	16.61	16.11	15.66	15.24	14.85	14.49	14.16	13.85	13.56
44%	18.47	17.80	17.20	16.65	16.15	15.70	15.28	14.89	14.53	14.20	13.89	13.59
45%	18.51	17.84	17.23	16.69	16.19	15.73	15.31	14.92	14.57	14.23	13.92	13.62
46%	18.55	17.87	17.26	16.72	16.22	15.76	15.34	14.95	14.59	14.26	13.94	13.65
47%	18.57	17.90	17.29	16.74	16.24	15.78	15.36	14.97	14.61	14.28	13.96	13.67
48%	18.59	17.91	17.31	16.76	16.26	15.80	15.38	14.99	14.63	14.29	13.98	13.68
49%	18.60	17.92	17.32	16.77	16.27	15.81	15.39	15.00	14.64	14.30	13.98	13.69
50%	18.61	17.93	17.32	16.77	16.27	15.81	15.39	15.00	14.64	14.30	13.99	13.69

PERCENT	Patient Number											
DIED	150	175	200	225	250	275	300	325	350	375	400	425
1%	2.44	2.26	2.11	1.99	1.89	1.80	1.72	1.66	1.60	1.54	1.49	1.45
2%	3.43	3.17	2.97	2.80	2.66	2.53	2.42	2.33	2.24	2.17	2.10	2.04
3%	4.18	3.87	3.62	3.41	3.24	3.09	2.95	2.84	2.74	2.64	2.56	2.48
4%	4.80	4.44	4.16	3.92	3.72	3.55	3.39	3.26	3.14	3.04	2.94	2.85
5%	5.34	4.94	4.62	4.36	4.14	3.94	3.77	3.63	3.49	3.38	3.27	3.17
6%	5.82	5.39	5.04	4.75	4.51	4.30	4.11	3.95	3.81	3.68	3.56	3.46
7%	6.25	5.79	5.41	5.10	4.84	4.62	4.42	4.25	4.09	3.95	3.83	3.71
8%	6.65	6.15	5.75	5.43	5.15	4.91	4.70	4.51	4.35	4.20	4.07	3.95
9%	7.01	6.49	6.07	5.72	5.43	5.18	4.96	4.76	4.59	4.43	4.29	4.16
10%	7.35	6.80	6.36	6.00	5.69	5.43	5.20	4.99	4.81	4.65	4.50	4.37
11%	7.66	7.10	6.64	6.26	5.94	5.66	5.42	5.21	5.02	4.85	4.69	4.55
12%	7.96	7.37	6.89	6.50	6.17	5.88	5.63	5.41	5.21	5.03	4.87	4.73
13%	8.24	7.63	7.13	6.73	6.38	6.08	5.82	5.60	5.39	5.21	5.04	4.89
14%	8.50	7.87	7.36	6.94	6.58	6.28	6.01	5.77	5.56	5.38	5.20	5.05
15%	8.75	8.10	7.57	7.14	6.77	6.46	6.18	5.94	5.73	5.53	5.36	5.20
16%	8.98	8.31	7.78	7.33	6.96	6.63	6.35	6.10	5.88	5.68	5.50	5.33
17%	9.20	8.52	7.97	7.51	7.13	6.80	6.51	6.25	6.02	5.82	5.63	5.47
18%	9.41	8.71	8.15	7.68	7.29	6.95	6.65	6.39	6.16	5.95	5.76	5.59
19%	9.61	8.90	8.32	7.85	7.44	7.10	6.79	6.53	6.29	6.08	5.88	5.71
20%	9.80	9.07	8.49	8.00	7.59	7.24	6.93	6.66	6.41	6.20	6.00	5.82
21%	9.98	9.24	8.64	8.15	7.73	7.37	7.05	6.78	6.53	6.31	6.11	5.93
22%	10.15	9.39	8.79	8.28	7.86	7.49	7.17	6.89	6.64	6.42	6.21	6.03
23%	10.31	9.54	8.93	8.42	7.98	7.61	7.29	7.00	6.75	6.52	6.31	6.12
24%	10.46	9.69	9.06	8.54	8.10	7.73	7.40	7.11	6.85	6.62	6.41	6.21
25%	10.61	9.82	9.19	8.66	8.22	7.83	7.50	7.21	6.94	6.71	6.50	6.30
26%	10.74	9.95	9.30	8.77	8.32	7.94	7.60	7.30	7.03	6.80	6.58	6.38
27%	10.87	10.07	9.42	8.88	8.42	8.03	7.69	7.39	7.12	6.88	6.66	6.46
28%	11.00	10.18	9.52	8.98	8.52	8.12	7.78	7.47	7.20	6.96	6.73	6.53
29%	11.11	10.29	9.63	9.08	8.61	8.21	7.86	7.55	7.28	7.03	6.81	6.60
30%	11.22	10.39	9.72	9.17	8.69	8.29	7.94	7.63	7.35	7.10	6.87	6.67
31%	11.33	10.49	9.81	9.25	8.78	8.37	8.01	7.70	7.42	7.16	6.94	6.73
32%	11.43	10.58	9.90	9.33	8.85	8.44	8.08	7.76	7.48	7.23	7.00	6.79
33%	11.52	10.66	9.97	9.40	8.92	8.51	8.14	7.82	7.54	7.28	7.05	6.84
34%	11.60	10.74	10.05	9.47	8.99	8.57	8.20	7.88	7.60	7.34	7.11	6.89
35%	11.68	10.82	10.12	9.54	9.05	8.63	8.26	7.94	7.65	7.39	7.15	6.94
36%	11.76	10.89	10.18	9.60	9.11	8.68	8.31	7.99	7.70	7.44	7.20	6.99
37%	11.83	10.95	10.24	9.66	9.16	8.73	8.36	8.03	7.74	7.48	7.24	7.03
38%	11.89	11.01	10.30	9.71	9.21	8.78	8.41	8.08	7.78	7.52	7.28	7.06
39%	11.95	11.06	10.35	9.75	9.25	8.82	8.45	8.12	7.82	7.56	7.32	7.10
40%	12.00	11.11	10.39	9.80	9.30	8.86	8.49	8.15	7.86	7.59	7.35	7.13
41%	12.05	11.15	10.43	9.84	9.33	8.90	8.52	8.18	7.89	7.62	7.38	7.16
42%	12.09	11.19	10.47	9.87	9.36	8.93	8.55	8.21	7.91	7.65	7.40	7.18
43%	12.13	11.23	10.50	9.90	9.39	8.96	8.57	8.24	7.94	7.67	7.43	7.20
44%	12.16	11.26	10.53	9.93	9.42	8.98	8.60	8.26	7.96	7.69	7.45	7.22
45%	12.19	11.28	10.55	9.95	9.44	9.00	8.62	8.28	7.98	7.71	7.46	7.24
46%	12.21	11.30	10.57	9.97	9.46	9.02	8.63	8.29	7.99	7.72	7.48	7.25
47%	12.23	11.32	10.59	9.98	9.47	9.03	8.64	8.31	8.00	7.73	7.49	7.26
48%	12.24	11.33	10.60	9.99	9.48	9.04	8.65	8.31	8.01	7.74	7.49	7.27
49%	12.24	11.34	10.60	10.00	9.48	9.04	8.66	8.32	8.02	7.74	7.50	7.27
50%	12.25	11.34	10.61	10.00	9.49	9.05	8.66	8.32	8.02	7.75	7.50	7.28

PERCENT	Patient Number											
DIED	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
1%	1.33	1.22	1.13	1.06	0.99	0.94	0.90	0.86	0.83	0.80	0.77	0.75
2%	1.88	1.71	1.59	1.48	1.40	1.33	1.27	1.21	1.16	1.12	1.08	1.05
3%	2.29	2.09	1.93	1.81	1.71	1.62	1.54	1.48	1.42	1.37	1.32	1.28
4%	2.63	2.40	2.22	2.08	1.96	1.86	1.77	1.70	1.63	1.57	1.52	1.47
5%	2.92	2.67	2.47	2.31	2.18	2.07	1.97	1.89	1.81	1.75	1.69	1.63
6%	3.19	2.91	2.69	2.52	2.37	2.25	2.15	2.06	1.98	1.90	1.84	1.78
7%	3.42	3.12	2.89	2.71	2.55	2.42	2.31	2.21	2.12	2.05	1.98	1.91
8%	3.64	3.32	3.08	2.88	2.71	2.57	2.45	2.35	2.26	2.18	2.10	2.03
9%	3.84	3.50	3.24	3.04	2.86	2.71	2.59	2.48	2.38	2.29	2.22	2.15
10%	4.02	3.67	3.40	3.18	3.00	2.85	2.71	2.60	2.50	2.41	2.32	2.25
11%	4.20	3.83	3.55	3.32	3.13	2.97	2.83	2.71	2.60	2.51	2.42	2.35
12%	4.36	3.98	3.68	3.45	3.25	3.08	2.94	2.81	2.70	2.61	2.52	2.44
13%	4.51	4.12	3.81	3.57	3.36	3.19	3.04	2.91	2.80	2.70	2.60	2.52
14%	4.66	4.25	3.93	3.68	3.47	3.29	3.14	3.00	2.89	2.78	2.69	2.60
15%	4.79	4.37	4.05	3.79	3.57	3.39	3.23	3.09	2.97	2.86	2.77	2.68
16%	4.92	4.49	4.16	3.89	3.67	3.48	3.32	3.17	3.05	2.94	2.84	2.75
17%	5.04	4.60	4.26	3.98	3.76	3.56	3.40	3.25	3.13	3.01	2.91	2.82
18%	5.15	4.71	4.36	4.07	3.84	3.64	3.48	3.33	3.20	3.08	2.98	2.88
19%	5.26	4.80	4.45	4.16	3.92	3.72	3.55	3.40	3.26	3.15	3.04	2.94
20%	5.37	4.90	4.54	4.24	4.00	3.79	3.62	3.46	3.33	3.21	3.10	3.00
21%	5.46	4.99	4.62	4.32	4.07	3.86	3.68	3.53	3.39	3.27	3.15	3.05
22%	5.56	5.07	4.70	4.39	4.14	3.93	3.75	3.59	3.45	3.32	3.21	3.11
23%	5.65	5.15	4.77	4.46	4.21	3.99	3.81	3.64	3.50	3.37	3.26	3.16
24%	5.73	5.23	4.84	4.53	4.27	4.05	3.86	3.70	3.55	3.42	3.31	3.20
25%	5.81	5.30	4.91	4.59	4.33	4.11	3.92	3.75	3.60	3.47	3.35	3.25
26%	5.88	5.37	4.97	4.65	4.39	4.16	3.97	3.80	3.65	3.52	3.40	3.29
27%	5.96	5.44	5.03	4.71	4.44	4.21	4.02	3.84	3.69	3.56	3.44	3.33
28%	6.02	5.50	5.09	4.76	4.49	4.26	4.06	3.89	3.74	3.60	3.48	3.37
29%	6.09	5.56	5.15	4.81	4.54	4.30	4.10	3.93	3.78	3.64	3.51	3.40
30%	6.15	5.61	5.20	4.86	4.58	4.35	4.15	3.97	3.81	3.67	3.55	3.44
31%	6.20	5.66	5.24	4.91	4.62	4.39	4.18	4.01	3.85	3.71	3.58	3.47
32%	6.26	5.71	5.29	4.95	4.66	4.43	4.22	4.04	3.88	3.74	3.61	3.50
33%	6.31	5.76	5.33	4.99	4.70	4.46	4.25	4.07	3.91	3.77	3.64	3.53
34%	6.36	5.80	5.37	5.02	4.74	4.49	4.28	4.10	3.94	3.80	3.67	3.55
35%	6.40	5.84	5.41	5.06	4.77	4.52	4.31	4.13	3.97	3.82	3.69	3.58
36%	6.44	5.88	5.44	5.09	4.80	4.55	4.34	4.16	3.99	3.85	3.72	3.60
37%	6.48	5.91	5.47	5.12	4.83	4.58	4.37	4.18	4.02	3.87	3.74	3.62
38%	6.51	5.94	5.50	5.15	4.85	4.60	4.39	4.20	4.04	3.89	3.76	3.64
39%	6.54	5.97	5.53	5.17	4.88	4.63	4.41	4.22	4.06	3.91	3.78	3.66
40%	6.57	6.00	5.55	5.20	4.90	4.65	4.43	4.24	4.08	3.93	3.79	3.67
41%	6.60	6.02	5.58	5.22	4.92	4.67	4.45	4.26	4.09	3.94	3.81	3.69
42%	6.62	6.04	5.60	5.23	4.94	4.68	4.46	4.27	4.11	3.96	3.82	3.70
43%	6.64	6.06	5.61	5.25	4.95	4.70	4.48	4.29	4.12	3.97	3.83	3.71
44%	6.66	6.08	5.63	5.26	4.96	4.71	4.49	4.30	4.13	3.98	3.84	3.72
45%	6.67	6.09	5.64	5.28	4.97	4.72	4.50	4.31	4.14	3.99	3.85	3.73
46%	6.69	6.10	5.65	5.29	4.98	4.73	4.51	4.32	4.15	4.00	3.86	3.74
47%	6.70	6.11	5.66	5.29	4.99	4.73	4.51	4.32	4.15	4.00	3.87	3.74
48%	6.70	6.12	5.66	5.30	5.00	4.74	4.52	4.33	4.16	4.01	3.87	3.75
49%	6.71	6.12	5.67	5.30	5.00	4.74	4.52	4.33	4.16	4.01	3.87	3.75
50%	6.71	6.12	5.67	5.30	5.00	4.74	4.52	4.33	4.16	4.01	3.87	3.75